Lancaster Farming

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Dr. Robert Damm

DHIA Head Analyzes Program; Looks To The Future

BY EVERETT NEWSWANGER
MANAGING EDITOR

Editor's Note: In a special interview this week, we look into the workings of the Pennsylvania DHIA Program through the eyes of Robert Damm, DHIA director of marketing and field services Damm came to the Pennsylvania DHIA Program earlier this year and has already put into place some new management practices that have been widely accepted as extremely good for the state association.

We asked Bob Damm about the present services offered by DHIA and where he sees the program advancing in the future. Here are our questions and his answers.

Q. So our readers can get to know you a little better, would you tell us about your professional experience and background?

I guess the adult years are essentially separated in two segments one of which is academic, and the other is production agriculture. I have a PAMA and a PHD in ... English and English and philosophy respectively; about five years teaching experience at the university level, a couple state side and one Canadian after which I operated 312 acres and a 60 to 65 cow dairy with 150 total cattle since 1972 in Wisconsin. During that time activities were not limited to the farm but a high level of involvement in coop directorships, cooperative training for young couples and activities of that nature that I was engaged in.

Q. We see DHI. We see DHIR. We see DHIA. We see AM-PM. Could you explain the difference between the programs, what they are and the programs DHIA offers dairymen?

I think one principal undergirds them all and that is the maximum amount of accuracy possible under the circumstances. We're quite unwilling to sacrifice in any one of them. Programs differeniate really on the basis of the individual preference of the dairy operator. DHIR, for example, is actually a breed sponsored program. People with registered cattle who have a high degree of interest in pedigrees and marketing and things of that nature will select DHIR because it brings them closer to the activities of the respective breed associations be it holstein, guernsey, or jersey. There is no functional difference between the testing that goes on in DHIR and that which goes on in DHIA. There

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New Futures Market Analysis Column Begins

A new futures market analysis column begins this week right under our normal futures market daily closing bids report. These market reports for grains and livestock are provided by the Pennsylvania Farmers Association ACRES program. A phone number to obtain more information is given with the report.

Farm Show Maps And Schedules Appear This Week

For your convenience this week, the Farm Show schedules of events and meetings are published on Pages B23 to B26. In addition, you'll find expanded floor plan maps of exhibitors' booths and where to find the farm products, home economics exhibits and the livestock barns.

While we plan to publish these pages next week in our annual special Farm Show issue, you may want to pull these pages out now and get them ready to take along with you to the Farm Show.

Of course next week, we also plan to present the FFA Keystone Farmer resumes and other Farm Show features. As you know, the Farm Show dates are Sunday, January 11 through Friday, January 16.

Remembering The Top Stories Of 1986

As we end the old year, let's take a look at some of the stories that appeared on the pages of Lancaster Farming. While it's impossible to mention all the top stories here, maybe by thinking about one or two news items each week, you will remember the year as it relates to your own experience. So here is our mention of the top farm news stories of 1986.

JANUARY 4

The cost of American agricultural products are in line with world competition according to USDA's economic research service. Unlike the popular belief that land and labor costs make American ag products too high priced, USDA found that in many cases the advanced technology really gave U.S. farmers the advantage.

JANUARY 11

For the first time since the final quarantines were lifted on October 4, 1984, the avian influenza virus surfaced in a Pennsylvania poultry flock. The outbreak was discovered in a Snyder county broiler flock.

JANUARY 18

The 70th Annual Farm Show brought together top entries in all kinds of Pennsylvania produce and livestock. Governor Richard Thornburgh opened the show by becoming the first person to use the brand new Penn Pages computer hookup between Penn State and the Extension offices.

JANUARY 25

The herd buyout program was explained to dairymen at the York county 4-H center. Dairymen had the month of February to decide their fate for the next five years.

FEBRUARY 1

A study conducted for the Mid-Atlantic Milk Marketing area showed that women consumers estimated the fat content of milk to be 36 percent while men think it's only 26 percent fat. So MAMMA launched an advertising campaign to puncture that myth and win back the consumers to drink more milk.

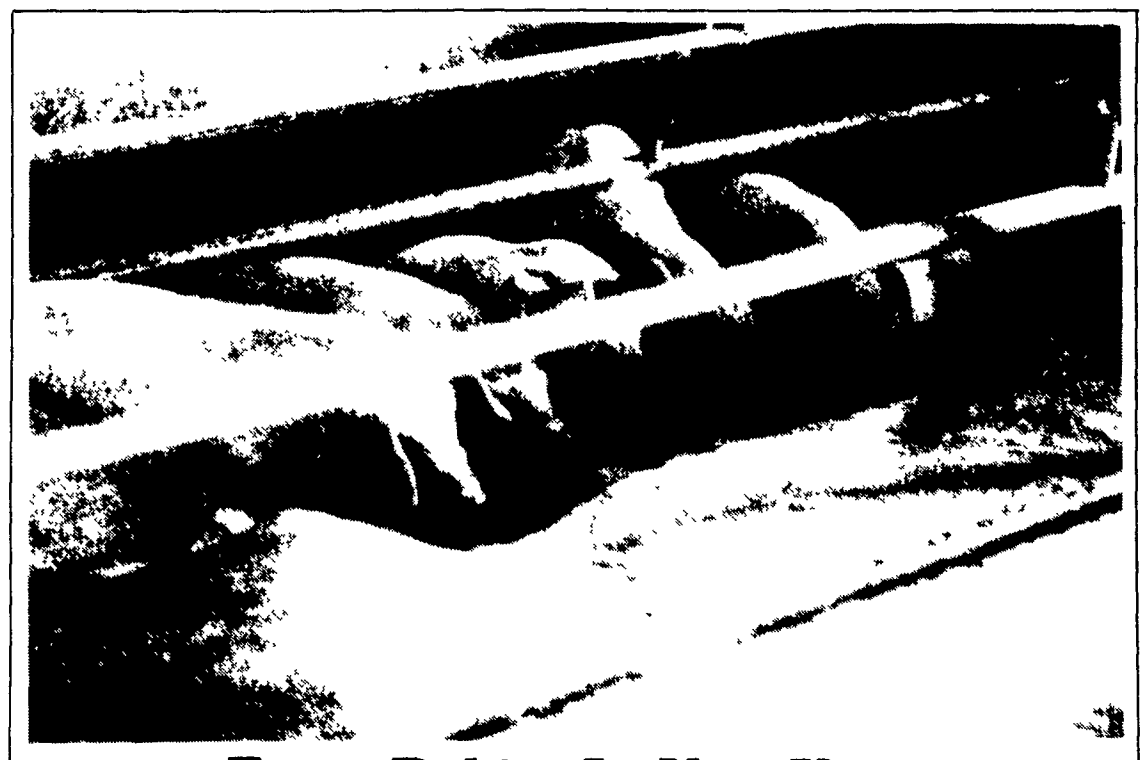
FEBRUARY 8

The Pennsylvania Young Farmers Association honored two farm couples during their annual meeting in Grantville. Harry and Ella Mae Wasson, Centre Hall, and Jeffrey and Nancy Hillegass, Berlin, received the Outstanding Young Farmer Award.

FEBRUARY 15

Nearly half a million FFA members across the country were promoting FFA week. This year's theme was "Leaders For The New Fields Of Agriculture".

(Turn to Page A27)



Farm Babies In New Year

With the new year, we think of new beginnings. And baby animals around the farm are the epitome of that which is excitingly new. What's more fun than watching a mother sow and her piglets.

In this photo, we caught the feeding-time action in the barn of Gerald and Judy Long and family, RD2, Annville. The Longs have a whole barn full with 240 piglets that have arrived for Christmas between December 20 and 26. And by the time January 31 is here, they expect 500 more.

You can be sure a lot of new, exciting things are happening at their farm. And this also gives the Lancaster Farming staff a chance to wish you and your family a lot of new and exciting things to happen around your farm in the new year, too.

Livestock market and auction news

Some markets not covered by PDA or USDA due to holiday

Lancaster Livestock Market

Lancaster, Pa.
Monday, December 29, 1986
Report Supplied by PDA

CATTLE 1420...USDA. Compared with last Tuesday's market: Slaughter steers Choice and Prime firm to $1 higher, Good to Low Choice mostly steady; Heifers .50-$1 lower; Cows firm to $1 higher; Bullocks steady; Bulls steady to weak. High Choice & Prime 3-4 steers 1250-1500 lbs. 61.75-64.25, Choice 2-3 few 4's 1150-1400 lbs. 59.60-62.50, several 3-4 1275-1450 lbs. with liberal fill 57-59.50, High Good & Low Choice 2-3 1050-1425 lbs. 56.50-60.25, Good 53.50-57, Good & Choice 1235-1500 lbs. holsteins 46.25-48.75, Standard & Low Good 42.75-45.50. Choice 2-3 few 4's heifers 53.75-57.50, 2-3 850-950 lbs. 52.00-54, Good 50.00-54. Breaking Utility & Commercid-4 slaughter cows 36-39.50, Cutter [Boning Utility 1-3 33.50-37.75, Canner [Low Cutter 32-34.50. Choice 1-3 slaughter bullocks 1150-1250 lbs. 52-54.75, Good 45.75-50. Yield Grade No. 1, 1350-1925 lbs. slaughter bulls 48.00-51, No. 2, 1000-1550 lbs. 44.75-49.00.

CALVES 157...Vealers mostly steady. High Choice [Prime 250-350 lbs. 96.00-108, Choice 160-350 lbs. 80.00-90, High Good and Low Choice 160-350 lbs. 65.00-80, 110-160 lbs. 50.00-65, 70-110 lbs. 35.00-45. Farm Calves: Demand good; Bulk Holstein bulls 95-125 lbs. $5.00-108, few Small Frame 90-110 lbs. 80.00-95; Slaughter calves $5-$10 higher; Good and Choice 325-500 lbs. sl. calves 50.00-65.00, few Choice 275-400 lbs. 65.00-75.00.

SHEEP 288...Wooled slaughter lambs $2-$3 higher. High Choice [Prime 85-110 lbs. wool lambs 70.00-75,Choice 80-115 lbs. 65.00-70, Good to Low Choice 60-75 lbs. 70.00-80; Choice 35-50 lbs. new crop lambs 150.00-190.00. Slaughter ewes steady; Utility [Good 25.00-40.00.

GOATS 305...Large Mature 50.00-65, Medium 40.00-50.00, Choice Kids 40.00-60, Good 25.00-40, few Plain Kids 20.00-25.00 — all per head.

Vintage Livestock Auction

Paradise, Pa.
Tuesday, December 30, 1986
Report Supplied by PDA

CATTLE 1139...USDA...SUPPLY INCLUDED 41% SLAUGHTER STEERS AND 54% Cows. Compared with Monday's market: Slaughter steers $1, instances $1.50 lower; Heifers and Cows steady to $1 lower, except Canner and low Cutter cows mostly steady. High Choice & Prime 2-4 slaughter steers 1150-1375 lbs. 64.25-67.10, few Choice #2 1150-1350 lbs. 62.75-64.25, Choice 2-3 few 4's 1100-1410 lbs. 58.00-61.25, mainly 58.50-60.50, few 3-4 1250-1300 lbs. 56.50-58, High Good & Low Choice 2-3 1050-1275 lbs. 55.00-58.50, few Good 925-1250 lbs. 53.00-56, couple lots Choice 1235-1325 lbs. holsteins 43.50-45.50. Few Choice 2-3 slaughter heifers 950-1075 lbs. 51.25-51.75, couple No. 2, 53-57.25, Good 950-1030 lbs. 46.75-48.50. Breaking Utility and Commercial slaughter cows 2-4 36.25-38, few 41.00, Cutter & Boning Utility 33.50-37, several 38.75, Canner & Low Cutter 32.00-34.50, few 31.00-32. Yield Grade No. 1-2, 1250-1640 lbs. slaughter bulls 45.00-47.75, couple 2105-2130 lbs. 45-47.25, few No. 2, 1000-1200 lbs. 43.25-44:50.

CALVES 1039...SUPPLY INCLUDED 716 IN GRADED SALES OF WHICH 66% SOLD TO RETURN TO FARM...Vealers fully steady, instances $5 higher on High Good and Low Choice 80-110 lb. weight. Couple Choice 270-315 lbs. 70.00-76, High Good and Low Choice 140-300 lbs. 55.00-70, 110-140 lbs. 45.00-60, 90-110 lbs. 40.00-50, 80-90 lbs. 38.00-41, 65-80 lbs. 30.00-38.00. Farm Calves: Holstein Bulls 100-125 lbs. 95.00-100, 90-95 lbs. 90.00, Small Frame 100-120 lbs. 66.00-83, 90-105 lbs. 48.00-50.00.

SHEEP 1...No market test.

GOATS 3...No market test.

Lancaster County Weekly

Wednesday, Dec. 31, 1986
Report Supplied by PDA

	Cattle	Calves
This Week	2650	1190
Last Week	1982	1078
Last Year	3249	1541

CATTLE: Slaughter steers steady to 50 lower, after some early sales being 1.00 higher; slaughter heifers 1.00-1.50 lower; cows steady; bullocks steady; bulls steady to weak. Supply included 49% slaughter steers, 9% slaughter heifers, 35% cows, 4% bulls, with the balance feeders; however, Thursday not included in report.

SLAUGHTER STEERS: Few high Choice and Prime 2-4 1150-1425 lb. 61.75-64.25, with around 25 head 64.50-67.75; Choice 2-3 few 4 1075-1450 lb. 58.00-62.50, few 62.50-63.00, several 3-4 1250-1450 lb. with liberal fill 56.50-58.50; high Good and low Choice 2-3 1050-1425 lb. 55.00-60.00; Good 2-3 925-1250 lb. 53.00-57.00; Good and Choice 1235-1500 lb. Holsteins 46.25-48.75, Standard and low Good 1200-1350 lb. 42.75-45.50.

SLAUGHTER HEIFERS: Choice 2-3 few 975-1250 lb. 53.00-57.50, couple Choice 2 57.25-58.25; Choice 2-3 850-950 lb. 52.00-54.00; Good 2-3 850-1125 lb. 48.50-54.00; Standard and Good 950-1200 lb. heiferettes 40.00-44.00.

COWS: Breaking Utility and Commercial 2-4 36.00-39.00, few 39.00-41.00; Cutter and Boning Utility 1-3 33.50-37.75, few 38.00-38.75; Canner and low Cutter 32.00-34.50, few 31.00-32.00.

BULLOCKS: Choice 1-3 1150-1350 lb. 52.00-54.75, couple 56.00-57.00; Good 1-2 1000-1250 lb. 45.75-50.00.

BULLS: Yield grade 1 1350-1925 lb. 47.75-51.00, few 53.25-57.50; yield grade 2 1000-1500 lb. 44.50-49.00.

VEAL CALVES: Vealers fully steady, instances 5.00 higher on high Good and low Choice 80-110 lb.; slaughter calves 5.00-10.00 higher. Demand good for Holstein bulls to return to farm.

VEALERS: High Choice and Prime 250-350 lb. 98.00-108.00; Choice 160-350 lb. 80.00-90.00, few 90.00-98.00; high Good and low Choice 160-350 lb. 65.00-80.00, 110-160 lb. 45.00-65.00, 90-110 lb. 40.00-50.00, 80-90 lb. 38.00-45.00, 65-80 lb. 30.00-38.00.

SLAUGHTER CALVES: Good and Choice 325-500 lb. 50.00-65.00; few Choice 275-400 lb. 65.00-75.00.

RETURNED TO FARM: Bulk 95-125 lb. Holstein bulls 95.00-108.00, few 90-95 lb. 90.00; small frame 100-120 lb. 60.00-90.00, few 90-105 lb. 48.00-50.00.

Weekly Summary

Harrisburg, PA
Friday, Jan. 2
Report supplied by PDA
8 Livestock Markets

CATTLE: 4200. Compared with 3275 head last week and 3856 head a year ago. Steers mostly .75 to 2.00 lower; heifers 1.00-2.00 lower; cows mostly steady to .50 lower; small supply bullocks uneven; bulls steady to 1.00 lower; High Choice & Prime No. 3-4, 61.75-64.25; Choice 57.00-62.50; Good 52.00-57.00; Standard 45.00-52.00; Choice heifers 52.00-57.00; Good 48.00-54.00; Standard 40.00-47.00; cows Breaking Utility & Commercial 36.00-39.50; Cutter & Boning 33.50-37.75; Canner & Cutter 30.00-34.50; shells 23.00; Choice bullocks 52.00-54.75; Good 49.75-52.00; YG No. 1 bulls 1000-1975 lb. 42.00-48.00; No. 2, 900-1475 lb. 38.00-42.50.

FEEDER CATTLE: Med. No. 1 steres 300-700 lb. 47.00-59.50; Med. No. 1 heifers 350-550 lb. 40.00-51.00; few No. 2, 400-500 lb. 39.00-42.00; few Large No. 1 bulls 450-650 lb. 55.00-57.00; few Med. No. 1, 400-650 lb. 42.00-49.00.

CALVES: 2520. Compared with 2263 head last week and 2721 head a year ago. Unevenly steady; High Choice & Prime 98.00-108.00; Choice 80.00-90.00; Good 65.00-80.00; 110-130 lb. 50.00-65.00; 90-110 lb. 45.00-55.00; 65-85 lb. 38.00-46.00; Utility 50-100 lb. 30.00-38.00; holstein bulls 90-135 lb. 70.00-105.00, few to 130.00.

HOGS: 4451. Compared with 2816 head last week and 4374 head a year ago. Mostly steady to .50 lower; No. 1-2, 210-245 lb. 48.50-52.00; No. 1-3, 210-250 lb. 47.50-50.50; No. 2-3, 210-265 lb. 45.50-50.00; No. 2-4, 225-285 lb. 44.00-49.00; sows steady to 3.00 lower; 300-685 lb. 38.00-42.50; No. 2-3, 300-700 lb. 35.00-38.50; boars 32.00-38.00.

FEEDER PIGS: 521. Compared with 783 head last week and 85 head a year ago. Mostly 1.00-3.00 higher; 20-35 lb. 27.00-40.00; 35-50 lb. 38.00-53.00; 50-85 lb. 53.00-67.00.

1 GRADED FEEDER PIG SALE: 1086. Compared with 1359 head last week and 1435 head a year ago. Mostly steady to 9.00 lower; 30-40 lb. No. 1-2, 106.00-122.00; 40-50 lb. 92.00-113.00; 50-60 lb. 87.00-101.00; No. 2-3, 36-39 lb. 108.00-118.00.

SHEEP: 533. Compared with 500 head last week and 519 head a year ago. Steady to 5.00 lower; High Choice & Prime 70-120 lb. 70.00-79.00; Choice 80-115 lb. 65.00-75.00; Good & Choice 50-75 lb. 64.00-80.00; sl. sheep 18.00-27.00.

Frederick Co. Hay

Buckeystown, Md.
Thursday, Jan. 1, 1986
Report Supplied by Auction

43 loads. Market steady to strong on hay, weaker on straw.

Alfalfa: 10 loads fair- good 125.00-160.00.

Timothy: 9 loads fair- good 126.00-140.00.

Mixed Hay: 7 loads fair- good 120.00-150.00; 5 fair some damaged 90.00-117.00.

Straw: 4 loads bright 80.00-92.00.

Ear Corn: 70.00/ton.

Firewood: 6 loads herd .76-.80; 1 load green 66.00.

Oklahoma Cattle

Wednesday, Dec. 31
Report supplied by USDA

Weekly Cattle Summary: Compared to Last Week– Scarce supply of feeder calves 1.00 higher. Few steers & heifers over 550 lb. steady to 1.00 lower. Feeder market hardly tested as holiday reduced receipts prevented normal buying practices at this market. Slaughter cows steady to 1.00 higher. Slaughter bulls fully steady. Cow & bull demand good. Receipts this week 1294 head; last week 1514; last year 3898. Feeder steers & heifers comprised 61% of the run; cows & bulls 39%. Due to light run following feeder prices should not be considered representative of full quality of each weight range.

Medium, few large frame 1.

FEEDER STEERS: 300-360 lb. 70.75-74.50; 500-550 lb. 62.60:-66.75; 640-700 lb. 62.00-63.50; 700-750 lb. 60.30-63.40.

FEEDER HEIFERS: 220-300 lb. 62.50-66.25; 400-500 lb. 59.25-63.00; 525-640 lb. 56.20-57.50.

SLAUGHTER COWS: Breaking Utility 2-4 34.00-37.70; Boning Utility 1-2 33.20-38.75; Cutter 1-2 33.20-36.60; Canner & Lo Dressing Cutter 28.25-32.75.

Montgomery Co. Names ASC Committeemen

CREAMERY – Charles Rhoads, Obelisk, a well known Montgomery County dairyman, was elected chairperson on the county Agricultural Stabilization and Conservation committee at the county ASCS convention, held Dec. 16, 1986 at the 4-H Center, Creamery, Pa.

Bernard Slemmer, Lederach dairyman was elected vice-chairperson and Stanley Moyer another local dairyman was elected as a regular member. These persons will serve for the coming year.

Representatives to the ASCS Committee are responsible for administering the federal agricultural programs. Such programs include feed grain and wheat programs, wool, honey, and dairy programs and also several county conservation programs.

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AUCTIONS

MONDAY
9:00 A.M. —Slaughter Bulls, Heifers, Steers, Cows
10:00 A.M. —Goats, Veal Calves, Lambs
12 Noon —Slaughter Hogs

WEDNESDAY
8:00 A.M. —Slaughter Hogs
10:00 A.M. —Slaughter Bulls, Heifers, Steers, Cows
11:00 A.M. —Veal Calves, Lambs

FRIDAY
11:00 A.M. —Stocker and Feeder Cattle

SATURDAY
8:00 A.M. —Slaughter Hogs

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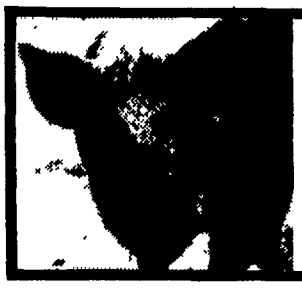
Buyers & Sellers Welcome



HOG MARKETS

Lancaster Hogs
Lancaster Stockyards
Sat., Dec. 27, 1986
Report supplied by auction
1320 head.
U.S. #1: 215-250 lbs., 56.00-57.75; U.S. #1&2: 205-255 lbs., 54.00-55.75; U.S. #1&3: 200-255 lbs., 52.50-53.75; U.S. #2&4: 200-255 lbs., 51.00-52.50.
Sows: 300-490 lbs., 35.00-40.50; 500-620 lbs., 38.00-41.00.
Boars: 200-275 lbs., 35.00-40.25; 300 and over, 30.00-33.00.

New Holland Hogs
New Holland Sales Stables
New Holland, PA
Monday, Dec. 29, 1986
Report Supplied by Auction

Today	1027
Last Monday	1063
Last Year	1350

TREND: Compared to last Monday barrows and gilts uneven; US 1-2 mostly steady, US 1-3 weak to 1.00 lower.
BARROWS AND GILTS: US 1-2 200-240 lb. 51.00-52.00, Few lots 52.50-53.25; US 1 200-240 lb. 53.50-54.50; US 1-3 200-250 lb. 48.00-50.50; US 2-4 250-270 lb. 45.00-46.25.

Indianapolis Hogs
Wednesday, Dec. 31, 1986
300. Barrows & gilts slow, steady-.50 higher.
US 1-3 230-255 lbs. 48.00-48.50; US 2-3 240-260 lbs. 47.25-48.50.
SOWS & BOARS: Absent.

Peoria Hogs
Wednesday, Dec. 31
1500 - Barrows & gilts active, .50-1.00 higher.
US 1-2 200-240 lb. 48.00-48.50, 150 head 48.75-49.00.
US 1-3 few 200-240 lbs. 47.00-48.00.
SOWS: 1.00-1.50 lower. (19%)
US 1-2 350-500 lb. 37.00-39.00, Few around 350 lb. 39.25.
US 1-3 500-650 lb. 40.00-41.00, bulk 40.00-40.50.
BOARS: Over 350 lb. 38.00; under 350 lb. 37.00-37.50.

PIGS
STATE GRADED SALE
FRI., JAN. 9
1:30 P.M.
AT
CARLISLE
LIVESTOCK AUCTION
Exit 12 Off I-81
(717) 249-4511 or
Evenings Jim, 249-2359

New Holland Hogs
New Holland Sales Stables
New Holland, PA
Monday, Dec. 29, 1986
Report Supplied by Auction
1,026 head. $1.00 lower.
Wholesale, 49.00-52.50; Retail, 53.00-54.00; Sows, 36.00-41.00; Boars, 31.00-33.00.

Vintage Hogs
Paradise, PA
Saturday, Dec. 27, 1986
Report supplied by Auction
Trend .50 higher.
U.S. 1 &2 225-240 lbs. 53.00-54.50; Sows 305-560 lbs. 30.00-38.50.

St. Louis Hogs
Wednesday, Dec. 31
2000 - Barrows & gilts active, light receipts fully .50 higher.
US 1-3 200-250 lbs. 48.00-48.50; 250-260 lbs. 47.50-48.00.
SOWS: Under 500 lb. steady-1.00 lower; over 500 lb. steady-1.50 higher. (9%)
US 1-2 300-500 lbs. 38.50; US 1-3 over 500 lbs. 40.00-44.00.
BOARS: Over 300 lbs. 37.50-38.00; under 300 lbs. 35.00-36.00.

Lancaster Hogs
Monday, Dec. 29, 1986
HOGS: Compared to last Monday barrows and gilts 1.00-1.50 lower; sows 1.00-2.00 lower.
BARROWS AND GILTS: US 1-2 200-245 lb. 50.50-51.50; US 1 200-245 lb. 52.00-53.00; US 1-3 200-250 lb. 49.50-50.50; US 2-4 220-260 lb. 48.00-49.00, 265-285 lb. 42.00-46.00.
SOWS: US 1-2 300-500 lb. 37.00-41.50; US 1-3 500-650 lb. 41.00-42.50.

New Holland Feeder Pigs
Wednesday, Dec. 31, 1986
Report Supplied by Auction
1086
US 1-2: 30-39 lbs. 106.00-122.00; 40-49 lbs. 92.00-113.00; 50-59 lbs. 87.00-101.00.
US 2-3: 36-39 lbs. 108.00-118.00.

Chambersburg Hay
Chambersburg, PA
Thursday, Jan. 1
Report Supplied by Auction
12 loads.
Mixed Hay: 108.00-140.00.
Straw: 1 load 95.00.
Firewood: 1 load 37.00.

Walter M. Dunlap and Sons offers all cattle feeders two marketing days — Give us a call for advice and marketing conditions.

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GRAIN, CATTLE AND HOG FUTURES MARKETS

(Daily closing bids: Friday, Dec. 26 through Wednesday, Dec. 31)

CORN

	FRI.	MON.	TUES.	WED.	THURS.
MAR. 87	164	161¼	160	160	
MAY	171½	169	168	167½	
JULY	175½	174	172¾	172½	
SEPT.	180	178½	178	177	
DEC.	183½	182¼	181½	180¾	

SOYBEANS

	FRI.	MON.	TUES.	WED.	THURS.
JAN.	493	487½	489	490¾	
MAR. 87	495	490½	492½	494¾	
MAY	497¾	493¾	496¼	498¼	
JUL.	499¾	496½	499	501	
AUG.	498¾	496	498½	501½	
SEP.	492	491	493	494½	
NOV.	491½	490½	493½	494½	

CHICAGO CATTLE

	FRI.	MON.	TUES.	WED.	THURS.
FEB.	56.62	55.97	56.42	55.52	
APR.	56.57	56.15	56.82	56.15	
JUN.	55.70	55.47	55.85	55.55	
AUG.	54.90	54.52	54.92	54.62	
OCT.	53.92	53.67	53.80	53.60	

SOYBEAN MEAL

	FRI.	MON.	TUES.	WED.	THURS.
JAN. 87	141.20	141.40	141.40	143.30	
MAR.	141.70	141.50	142.60	144.40	
MAY	142.60	142.50	144.00	154.50	
JULY	143.30	143.60	145.20	146.80	
AUG.	143.80	144.10	146.00	147.00	
SEPT.	144.50	144.50	146.50	147.60	
OCT.	144.50	145.00	147.00	148.00	

(Turn to Page A14)

GRAIN AND LIVESTOCK FUTURES MARKET TRENDS

This market information provided by ACRES. ACRES is a copyrighted market information service developed by the American Farm Bureau and available to Pennsylvania farmers on a daily basis through Pennsylvania Farmers' Association Farm Management Services, 717-761-2740

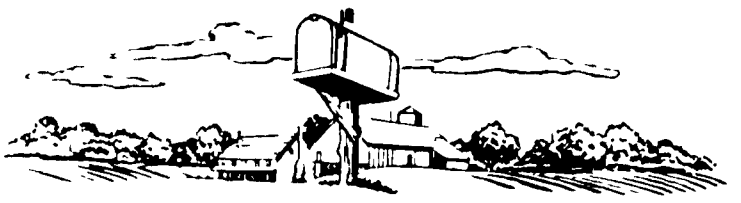
(Based on closing bids of Wed., Dec. 31)

ACRES SOYBEAN UPDATE: Soybean futures settled higher and near session highs, boosted by carryover short covering from yesterdy's higher closes and strength in soymeal futures. Although heavier than anticipated delivery notices against January this morning were expected to lend a bearish tone to today's trading, a weak U.S. dollar and higher European soymeal values offset that bearishness. Slack country movement overnight and steady interior basis values also supported soybean futures.

ACRES WHEAT UPDATE: Wheat futures closed mostly slightly higher with support coming from followthrough buying from yesterday's higher close. Spillover weakness from the corn pit limited gains. However, higher foreign currency futures helped support prices throughout the day.

ACRES CATTLE UPDATE: Cash cattle prices were steady to slightly lower today with tops of $57.50 to $58.35 on steers and $56 to $56.50 on heifers. Light receipts supported prices while lower dressed beef prices Tuesday pressured prices. Live cattle futures settled lower pressured by long liquidation, thought to be position evening before the New Year. Light volume accentuated the down move. Spillover pressure from declines in live hog futures and sharp losses in the pork belly futures additionally weighed on live cattle futures.

ACRES HOG UPDATE: Cash hog prices were steady to $1 higher today with top prices of $47.50 ot $49.75. Light receipts supported cash prices today as lower dressed pork prices and cut-out values limited gains. Live hog futures closed lower as scattered position evening before the new year pressured prices. Further weakness was tied to some ideas on the floor that fresh pork product and cash hog prices Friday would be steady to slightly lower.



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POULTRY MARKETS

Delmarva Poultry

Wednesday, Dec. 31, 1986

Market Comment: Demand for ready-to-cook whole birds was good and continues to keep offerings in a short to well-balanced position. Movement in the parts complex remained good on all items, however, the call for legs now exceeded leg quarters, and interest in wings was a bit less aggressive than earlier. White meat items were available in spots but the overall supply had diminshed. Less than trucklot asking prices were generally 2-4 cents higher at 48 to 55 cents and additional product was held with confidence. Live supplies were mostly moderate at desirable to heavier than desired weights. Slaughter schedules were very light today, with some slaughter planned for both New Year's Day and Saturday in addition to most plants operating Friday. The undertone remained firm.

Estimated slaughter of broiler fryers in Delmarva:

Estimated 12/31 1,314,000; Actual 12/24 919,000.

Actual 12/29 2,048,000.

Average Weights 12/29 4.69, 12/22 4.54.

Eastern PA and NJ Poultry

Wednesday, Dec. 31, 1986
Report Supplied by USDA

Market Comment: Prices were unchanged to slightly higher for this week's arrivals; next week's bookings slow in developing as buyers attempt to assess overall availability and higher asking prices for spent hens. Offerings ranged adequate to short of a fair call. Finished product sales were fair, however, an increase in demand was expected due to a decline in the availability of broiler-fryer meat. The undertone was fully steady to firm.

Prices Paid at Farm:

Light Type Hens: 10-13, mostly 12; F.O.B. Plant 12-15, mostly 13-14.

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Phone 203-966-1746

Hackettstown Poultry & Egg

Hackettstown, N.J.
Tuesday, Dec. 30
Report Supplied by Auction

Heavy Fowl .35-.65.
Med. Fowl .30.
Geese .60-.70.
Roosters .35-.60.
Ducks .40-1.20.
Rabbits .70-1.60.
Pigeons 1.80-2.10.
Guineas 1.60.

Eggs
White
Grade A

Jumbo X Lge. .82-.97; Large .52-.76; Medium .45-.62; Small .29-.38.

Brown

Jumbo X Lge. 1.10-1.22; Large 1.01-1.09; Medium .84.

Philadelphia Eggs

Wednesday, Dec. 31, 1986
Report Supplied by USDA

Market Comment: Prices were trending lower. Trade senitment was barely steady and cautious. Carton eggs demand was only fair. Retail promotional activity, both planned and in progress was hoped to stimulate some additional buying interest. Supplies of graded product were adequate to fully adequate. In some areas nest runs were accumulating due to limited processing time because of the New Year's holiday.

Prices to retailers: sales to volume buyers, consumer grades white eggs in cartons delivered store door:

A Extra Large .70-.76; A Large .68-.74; A Medium .58-.63.

New York Multiple Drop Broiler Report

Wednesday, Dec. 31, 1986
Report Supplied by USDA

Current broiler-fryer negotiated prices for immediate delivery includes mostly multiple drop shipments to New York City from Delmarva.

Range: U.S. Grade A 46-51.

Weighted AVG.; U.S. Grade A 49.81.

Premium (X) Boxes 10,085

(X) Includes special services, selected competitive brands, etc.

Heinsey's Poultry Report

Root's, East Petersburg
Tuesday, Dec. 30, 1986
Report supplied by auction

Muscovy Ducks, Drakes: range .90-1.06 per lb.

Muscovy Ducks, Hens: range .70-.84 per lb.

Pekin Ducks: range .40-.62 per lb.

Red Fowl: 4-4.2 lbs. range .30-.48 per lb.

Red Fowl: 5-6 lbs. range .40-.56 per lb.

Crossbred Fowl: 5-9 lbs. range .30-.54 per lb.

Crossbred Roosters: 4-6 lbs. range .50-.78 per lb.

Crossbred Roosters: 7-11 lbs. range .40-.68 per lb.

Guinea Fowl: range .50-1.55 per lb.

Banty Roosters: range 2.00-4.50 ea.

Banty Hens: range .50-1.00 ea.

Leghorn Hens: range .19-.30 per lb.

Geese: 8-15 lbs. range .15-.62 per lb.

Capons: 11-12 lbs. range .74-.78 per lb.

Pigeons: range 1.50-2.00 ea.

White Pigeons: range 3.50-4.10 ea.

Silkies: range 2.75-4.50 ea.

Doves: range 2.00-3.00 ea.

Chukars: range 3.75-4.00 ea.

Rabbits: 4-6 lbs. range .90-1.20 per lb.

Rabbits: 7-11 lbs. range .80-.98 per lb.

Bunnies: .50-2.00 per lb.

Guinea Pigs: range 1.00-3.75 ea.

Goats: range 40.00-51.00 ea.

Kid Goats: range 35.00-42.00 ea.

Total Number of Coops: 660.

Northeast Chicken Parts

Wednesday, December 31, 1986

Comment: Trading remains fairly good, although not quite as aggressive as the last 2 days. Cutlets were tightening up and sellers generally had no problem in getting at least $1.80. Line run breasts were spotty, and while some products sold below 75 cents, the latest sales were at this level and there was a continued willingness to pay 75 cents, particularly for next week. Rib breasts were clearing easily. The call for legs had improved, and several sellers have now noted more difficulty in acquiring legs than leg quarters. Leg quarters were still clearing, but not with the same velocity of early weeks. Wings were stronger and still short of full needs, but the orders were not as heavy or the buyers as aggressive.

Breasts, skinned, boneless 1.80-1.85.
Rib-on-breasts .81-.82.
Line one breasts .75.
Legs .41-.42.
Leg quarters .34-.35.
Wings .61-.62.
Backs and necks .10-.12.
Livers .10-.15.
Gizzards (hearts) .30-.35.

Today's negotiated sales as of 11:30 a.m. prices paid per pound on ice packed part delivered in pool trucklot and trucklot quantities.

N.E. Weekly Shell Egg Report

Tuesday, Dec. 30
Report Supplied by USDA

Prices paid per dozen Grade "A" Brown eggs in cartons delivered to retail stores:

	Ex. Large	Large	Medium	Small
N. HAMP.	.91-.95	.87-.91	.80-.84	.53-.57
Mostly	.93-.94	.89-.90	.82-.83	.55-.56
R.I.	.94-.98	.90-.94	.83-.87	.56-.60
Mostly	.94	.90	.83	.56
VERMONT	.97-1.04	.95-.99	.79-.92	
Mostly	1.00	.98	.90	
MAINE	.98-1.05	.94-1.01	.87-.95	.60-.63

Weekly New York Egg Market Northeast Quotes

From Friday Dec. 26 to Wednesday, Dec. 31

	Fri.	Mon.	Tues.	Wed.	Thurs.
WHITE					
Jumbo	.84	.84	.82	.80	
Ex. Large	.81	.81	.79	.77	
Large	.78	.78	.76	.74	
Medium	.68	.68	.66	.64	
Pullets	.60	.60	.57	.55	
Off Grade	.68	.68	.66	.64	
BROWN					
Ex. Large	.97	.97	.97	.97	
Large	.91	.91	.91	.91	
Mediums	.75	.75	.75	.75	
OFF GRADE					
Undergrades	.39	.39	.38	.38	
Checks	.37	.37	.36	.36	

Breaking Stocks: Friday 42-44 lbs. 36.00-38.00; 48-50 lbs. 44.00-46.00; 50 lbs. up 46.00-47.00; Monday 42-44 lbs. 36.00-38.00; 48-50 lbs. 44.00-46.00; 50 lbs. up 46.00-47.00; Tuesday 48-50 lbs. 43.00-45.00; 50 lbs. up 45.00-46.00; Wednesday 48-50 lbs. 43.00-45.00; 50 lbs. up 45.00-46.00.

Four States Hay

Wednesday, Dec. 31
Report supplied by auction

6 loads.

Alfalfa 140.00-145.00; Timothy 128.00; Mixed Hay 91.00; Straw 88.00-91.00.

North Jersey Market

Hackettstown, N.J.
Tuesday, Dec. 30, 1986
Hay—Straw & Grain Report

Mixed 2.25-2.50/bale.
Total 2 Lots.

DURABILITY YOU NEED AT PRICES YOU CAN AFFORD

HEAVY DUTY AUGERS

4" - 6" - 8" - 10" - 12"
Standard Sizes In Stock

Custom Sizes Made To Order

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PENNFIELD COMPLETE FEEDS

Quality - Performance - Value

Here is what it costs to buy Pennfield's Dairy Feeds

#513	#515	#515/519	#519
16% Dairy Pellets	16% Textured Dairy	18% Textured Blend	20% Dairy Pellets
$137.57 Net/Ton	**$138.26** Net/Ton	**$145.57** Net/Ton	**$152.88** Net/Ton

Includes 4 ton volume discount and cash discount of 2½% due 15th following month.
Prices effective Dec. 29, 1986 and subject to change with grain markets. Deduct additional $3.00 per ton if paid in 10 days.

Pennfield Dairy Program Pluses:

+ "No Charge" for forage testing
+ Computer calculated "Least Cost" feeding program
+ Order department open 24 hours per day Monday 5 A.M. thru Saturday 5 A.M. Answering service on weekends.
+ Corn exchange program
+ Dairy terms: 2½% cash discount - due 15th of following month.
+ Well trained "Dairy Specialists" who can help solve problems when they occur.

Here is what it costs to make your own 16% grind and mix ration

	Ingredients	Cost/Unit	Total Cost	Crude Protein
250 lbs.	48% Soybean Meal	$207.00/Ton	$25.88	120 lbs.
265 lbs.	Roasted Soybeans	$ 9.40/100 Lbs.	$24.91	98 lbs.
1325 lbs.	Ear Corn	$ 62.00/Ton	$41.08	102 lbs.
100 lbs.	Molasses	$ 7.50/100 lbs.	$ 7.50	3 lbs.
60 lbs.	Vitamin-Mineral Premix	$ 28.37/50 lb. bag	$34.04	—0—
	Grinding & Mixing	$ 10.50/Hammermill Mix	$ 8.75	—0—
2000 Lbs.		**TOTAL COST PER TON:**	**$142.16**	**323 lbs. = 16.1%**

From Pa.
1-800-732-0467

From Md., NJ, DE
1-800-233-0202

pennfield feeds

HAY MARKETS

Pa. Grain

Monday, Dec. 29
Report supplied by PDA

COMPARED WITH LAST MONDAY'S MARKET FOR SOUTHEASTERN, CENTRAL AND SOUTH CENTRAL PA.: Corn steady to .02 higher; Wheat steady to mostly .04 lower; Barley unevenly steady; Oats steady to .04 higher; Soybeans steady to .05 higher; Ear Corn steady to $2 higher.

Southeastern Pennsylvania

Corn No. 2-y range 1.65-1.95, average 1.79; @Wheat No. 2 range 2.30-3.26, average 2.74, *Contract for Harvest 2.40-2.61; Barley No. 3 range 1.30-1.50, few reported 1.70, average 1.45, *Contract for Harvest 1.10-1.30; Oats No. 2 range 1.15-1.60, few reported 1.70; average 1.40; Soybeans No. 1 range 4.60-4.87; average 4.75; *Gr. Sorghum #2 range 1.60, average 1.60; #New Ear Corn range 40.00-55.00, average 48.09.

Central Pennsylvania

Corn No. 2-y range 1.65-1.90, average 1.78; @Wheat No. 2 range 2.30-3.00, average 2.56; Barley No. 3 range 1.25-1.30, average 1.29; Oats No. 2 range 1.00-1.30, few reported 1.45, average 1.19; Soybeans No. 1 range 4.40-4.75, average 4.61; *Gr. Sorghum #2 range 1.50, average 1.50; *+Buckwheat range 8.50-9.50, average 9.00; *Old Ear Corn range 43.00-55.00, average 48.43; #New Ear Corn range 36.00-48.00, average 41.29.

South Central Pennsylvania

Corn No. 2-y range 1.70-1.95, average 1.84; @Wheat No. 2 2.30-2.60, average 2.40; Barley No. 3 range 1.20-1.60, average 1.36; Oats No. 2 1.20-1.35, few reported 1.50, average 1.34; #New Ear Corn range 45.00-50.00, few reported 60.00, average 51.71.

Western Pennsylvania

Corn No. 2-y range 1.60-2.00, average 1.75; @Wheat No. 2 range 2.20-2.55, average 2.42; Oats No. 2 range .90-1.55, average 1.26; *Old Ear Corn range 50.00-55.00, average 52.50; #New Ear Corn range 35.00-49.00, average 42.00.

Southeastern, Central & South Central Summary

Corn No. 2-y range 1.65-1.95, average 1.80; @Wheat No. 2-y range 2.30-3.26, average 2.60; Barley No. 3 range 1.25-1.50, average 1.38; Oats No. 2 range 1.00-1.50, average 1.29; Soybeans No. 1 range 4.40-4.87, average 4.69; #New Ear Corn range 40.00-55.00, average 47.20.

Month Ago

Corn No. 2-y range 1.80; @Wheat No. 2-y range 2.59; Barley No. 3 range 1.35; Oats No. 2 range 1.15; Soybeans No. 1 range 4.69; #New Ear Corn range 45.07.

Year Ago

Corn No. 2-y average 2.51; @Wheat No. 2-y average 3.07; Barley No. 3 average 1.63; Oats No. 2 average 1.15; Soybeans No. 1 average 5.02; #New Ear Corn average 59.27.

Regional Hay

Eastern, Pa.
On-Farm Sales

HAY & STRAW MARKET FOR EASTERN PA. (All Hay No. 2 and better prices paid by dealers at the farm and per ton.) - Hay and Straw fully steady.

Alfalfa 90.00-110.00; Mixed Hay 75.00-100.00; Timothy 75.00-100.00; Straw 65.00-90.00; Mulch 30.00-40.00.

Lancaster Co. Auctions

SUMMARY OF LANCASTER CO. HAY AUCTIONS For Week Ending 12/26. PRICES PER TON: LOADS: 275 Hay, 115 Straw, and 29 Ear Corn.

Alfalfa 92.00-135.00; Mixed Hay 80.00-120.00; Timothy 88.00-134.00; Straw 90.00-126.00; Ear Corn 60.00-80.00.

Central Pa. Hay Auctions

SUMMARY OF CENTRAL PA. HAY AUCTIONS For Week Ending 12/26. PRICES PER TON: LOADS: 109 Hay, 32 Straw, and 3 Ear Corn.

Alfalfa 90.00-133.00; Mixed Hay 60.00-116.00; Timothy 81.00-121.00; Straw 75.00-98.00; Ear Corn 45.00-65.00.

Keister's Hay

Middleburg, PA
Tuesday, Dec. 30
Report supplied by auction

50 loads Hay, Alfalfa, 80.00-120.00; Mixed Hay, 60.00-110.00; 12 loads Straw, 65.00-93.00.

Ear corn, 1 at 70.00; Oats 3 loads 1.50-1.80 bu.; Firewood 20.00-39.00 ld.

Dewart Hay

Dewart, PA.
Monday, Dec. 29, 1986
Report Supplied by Auction

Hay (15 loads) 70.00-115.00; Straw (3 loads) 67.00-70.00; Firewood (17 loads) 25.00-70.00.

Green Dragon Hay

Ephrata, Pa.
Friday, Dec. 26, 1986
Report Supplied by Auction

110 loads.

Alfalfa, 84.00-135.00; Mixed, 81.00-149.00; Orchard Grass, 71.00-100.00; Timothy, 92.00-140.00; Clover, 105.00; Corn Fodder, 50.00; Straw, 87.00-126.00; Ear Corn 51.00-71.00; Oats, 80.00-108.00; Roasted Soybeans, 10.00 per 100.

New Holland Hay

New Holland, PA
Monday, Dec. 29
Report Supplied by Auction

264 loads.

Alfalfa 86.00-152.00; Timothy 99.00-140.00; Mixed Hay 72.00-152.00; Straw 75.00-128.00; Ear Corn 46.00-73.00.

Leinbach's Hay

Shippensburg, PA
Dec. 27 & 30, 1986
Report supplied by Auction

81 loads.

Alfalfa, 86.00-149.00; Mixed Hay, 75.00-128.00; Timothy, 82.00-113.00; Clover 81.00-101.00; Straw 70.00-93.00.

Shelled Corn, 1.89-1.99 bu.; Firewood, 21.00-34.00 pick-up load.

TOP HAY FARMER WANTED

Hard working, hands on manager for 600 acre Northern Virginia estate. 400 acres for alfalfa, timothy, wheat straw for home consumption and sale. No livestock. Full cooperation of active horseman owner. Only heavily experienced need apply. Background and references will be checked only after interview. For now submit all details in absolute confidence to:

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EVEN LOWER PRICES FOR LARGER QUANTITIES.

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NEW HOLLAND SALES STABLES, INC. - THE ACTION AUCTION

MONDAY

FAT HOGS

EARLY BIRD HOG SALE
7:30 AM
For Your Protection Your Hogs Must Be Identified

10:00 AM

HORSES MULES

11:00 AM

HAY
STRAW
GRAIN

1:30 PM
BEEF SALE
CALF, SHEEP, GOATS

WEDNESDAY
11:00 A.M.

DAIRY COWS

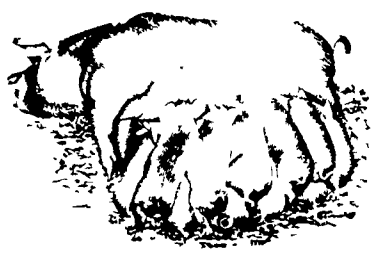
HEIFERS, BULLS

NEW HOLLAND SALES STABLES, Inc.
12 Miles East of Lancaster
on Route 23, New Holland, Penna

The Action Auction
717-354-4341

Mgr - Abe Diffenbach - 717-393-4464
Norman Kolb - 717-397-5538
Field Representatives
Alan Diffenbach 717-656-9806
Luke Eberly 215-267-6608 - 738-1865

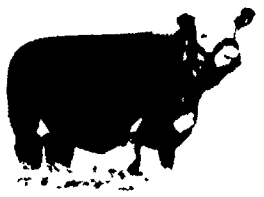
WEDNESDAY - 1:30 P.M.
FEEDER PIG SALE



We endeavor to keep our barns cleaner than yours. State graded until 12 Noon

THURSDAY
10:00 AM

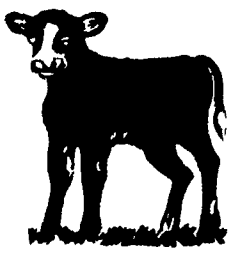
BULLS -

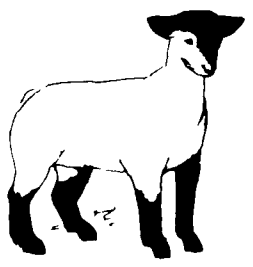


STEERS -
BEEF COWS

2:30 P.M.

CALVES





SHEEP
GOATS

Market your livestock thru New Holland Sales, your neighbor does
Pick-up your check before you leave

Good's Hay
Leola, Pa.
Wednesday, Dec. 31, 1986
Report Supplied by Auction

124 loads.

Alfalfa 120.00-153.00; Straw 100.00-130.00; Timothy 95.00-145.00; Mixed Hay 85.00-135.00; Ear Corn 65.00-68.00; Firewood 31.00; Oats 1.50-1.90.

King's Hay
Kirkwood, Pa.
Tuesday, Dec. 30, 1986
Report supplied by Auction

43 loads.

Alfalfa, 72.00-145.00, mostly 124.00-145.00; Alfalfa Mix, 130.00-141.00; Mixed Hay, 104.00-139.00.

Timothy and Timothy Mix, 117.00-130.00; Stubble Hay, 90.00; 15 loads Straw, 94.00-118.00; Ear Corn, 66.00.

Carroll Co. Hay
Westminster, MD
Tuesday, Dec. 30
Report supplied by Auction

29 loads.

Alfalfa: Very Good 132.00-135.00; Fair to Good 98.00-119.00, 2.80 bale.

Timothy: Very Good 121.00-142.50, Good 103.00-118.00, 2.05/bale.

Alfalfa/Timothy: 120.00.
Alfalfa/Grass: 109.00-125.00.
Timothy/Clover: 133.00.
Grass Hay 98.00.
Wheat Straw: 93.00-113.00 $1/bale.
Rye Straw: 100.00.
Firewood 77.00-79.00/cord.

Westminster Hay
Tuesday, December 30

29 loads.

Alfalfa: Good 132.00-135.00; Fair 98.00-119.00.
Alfalfa Mixed: 109.00-125.00.
Timothy: Good 103.00-142.50.
Timothy Clover: 133.00.
Grass: 98.00.
Wheat Straw: 93.00-113.00.
Rye Straw: 100.00.
Firewood: 77.00-79.00/Cord.

Belleville Hay
Wednesday, Dec. 31
Belleville, PA
Report Supplied by Auction

63 lds. Alfalfa 72.50 to 122.50; Mixed 55.00-92.50; 10 lds. Straw 70.00-95.00; 1 ld. corn fodder 70.00.

Lebanon Valley Livestock Auction
Fredericksburg, Pa.
Tuesday, December 30, 1986
Report Supplied by PDA

CATTLE 257...PDA. Supply includes 72% slaughter cows. Few High Good and Low Choice slaughter steers 56.00-58.00, Good 53.75-56.75, few Standard 52.50-54.25, Good and Choice 1145-1650 lbs. holsteins 47.00-49.25, few Choice 57.50-55.25, Standard 41-46.75. Choice 3-4 slaughter heifers 975-1135 lbs. 52.00-57, two 58.25&59, few Good 51.50-52, few Standard 40.00-47.00. Breaking Utility and Commercial slaughter cows 36.75-38, few 40.25, one 42.75, few Low dressing 34.50-36, Cutter and Boning Utility 33.75-37, few 38.00, Canner and Low Cutter 30.75-33.75, few down to 28.75, Shells down to 20.00. Few Standard and Good slaughter bullocks 44.75-48.25. Yield Grade No. 1, 1400-1875 lbs. slaughter bulls 43.75-48.00. Feeder Cattle: Few Medium Frame No. 1, 300-740 lbs. steers 58.50-63.00.

CALVES 261...Two Good vealers 60.00 and 65, few Standard 39.00-44.00, Standard and Good 90-110 lbs. 45.00-54.00, 65-85 lbs. 40.00-45.00, Utility 50-85 lbs. 27.00-35.00. Farm Calves: Holstein Bulls 85-120 lbs. 70.00-101, few down to 55.00. Beef cross bulls and heifers 75-105 lbs. 55.00-78.00.

HOGS 135...US No. 1-2 205-240 lbs. barrows and gilts 48.00, lot 47.00, 1-3 215-240 lbs. 47.50-48, lot 2-3 290 lbs. 44.00, lot 1-3 170 lbs. 42.50. US No. 1-3 315-475 lbs. sows 35.00-39.00, 495-620 lbs. 38.00-40, one 40.75. Few Boars 35.00-36.50, light weights 32-32.50.

FEEDER PIGS 0...No market test.

SHEEP 2...Choice 60 lbs. wool slaughter lamb individual 63.00. Slaughter ewe, one 15.00.

GOATS 1...No market test.

Omaha Weekly
Wed., Dec. 31
Report Supplied by USDA

Weekly 51– Cattle– Slaughter steers and heifers through Tuesday of this holiday shortened week posted steady to 50 higher trends to a good packer demand. Wholesale beef prices proved unfriendly to the live level as both carcass and boxed beef prices posted declines from the previous week, but packers were in need of some numbers for the near term kill. Slaughter cows and bulls steady with last week.

Estimated 4 day receipts this holiday shortened week, 4,400 compared to 4 day actuals last week of 3,784 and 4 day actuals last year of 5,415. Slaughter steers accounted for 43 percent of the weeks receipts, slaughter heifers 37 percent, slaughter cows 18 percent and feeder cattle none.

SLAUGHTER STEERS: Closing sales choice 2-4 1050-1350 lbs. 58.50-59.75, four loads 60.00; Mixed good and choice 2-3 1000-1200 lbs. 57.00-59.00; Good 55.00-57.00. Part load choice 2-3 holsteins, near 1250 lbs. 52.50; Mixed good and choice 2-3 1200-1450 lbs. 50.50-51.00; good 47.00-48.00.

SLAUGHTER HEIFERS: Closing sales choice 2-4 950-1150 lbs. 57.50-58.50; Mixed good and choice 2-3 925-1050 lbs. 56.00-58.00. Good 54.50-56.50.

Average of LS 214 detailed price quotations for choice 900-1100 lb. slaughter steer this week 58.75, 1100-1300 lbs. 59.44. Average cost of all slaughter steers this week 58.25, average weight 1,207 lbs. compared to 58.46 and 1,177 lbs. last week. Average cost of all slaughter heifers this week 57.11. Average weight 1,072 lbs. compared to 56.98 and 1,054 lbs. last week.

SLAUGHTER COWS: Breaking utility and commercial 2-3 34.75-37.75; high cutter and boning utility 1-3 34.00-38.25, few high dressing to 39.00; low to average cutter 30.00-34.00, few canner 28.00-30.00.

SLAUGHTER BULLS: 1-2 1300-2200 lbs. 41.50-46.75, low dressing 40.00-42.00.

East Coast Carlot
Wednesday, Dec. 31, 1986
Report supplied by USDA

Compared to Tuesday's close: Trading slow just prior to new year's day. Choice and prime special fed veal weak in light test. Good and Choice boning veal 1.00 to 3.00 lower; inshipped untested. Compared to last week, Choice and prime lamb 5.00 higher.

Veal Carcass-Hide On
Choice & Prime
(Special Fed)
50 Head
220-280 lbs. few 157.00, weak.

Good and Choice
Boning Type-Hide On
Northeastern Suppliers
500 Head
65-75 lbs. 83.00, 1.00-3.00 lower; 55-64 lbs. 81.00; 45-54 lbs. 79.00; 35-44 lbs. 77.00; 34 lbs. down 75.00.

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(Office)
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* 2 full time pullet service people	Insures that pullet growing program is followed resulting in birds that perform.
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THE OLD FARMER'S ALMANAC

JAN. 5-11, 1987

January thaws, then digs in icy claws.

American naval hero Stephen Decatur born at Sinepuxent, Md Jan 5, 1779 First quarter of the moon Jan 6 (Tues) First oil gusher occurred at Beaumont, Texas Jan 10, 1901 Dr John Jeffries and Jean-Pierre Blanchard made first crossing of the English Channel in a balloon, Jan 7, 1785 Average length of days for the week 9 hours, 16 minutes American troops under Andrew Jackson repulsed a British assault on New Orleans, La , Jan 8, 1815 *He who can take rest is greater than he who can take cities*

Ask the Old Farmer: How do I treat pinecones for use as fire starters? What will produce colored flames? M B , Laramie, Wyo

For a green color, dissolve one pound of boric acid in one gallon of water For a red color, substitute strontium nitrate, for blue, copper sulphate Soak the pinecones for eight hours or so in the solution, then dry them thoroughly in the sun Epsom salts used in the same proportions will also give you colors

Home Hints: Check seed potatoes now and remove any rotten ones immediately

OLD FARMER'S WEATHER FORECAST

New England: Beginning of week seasonable, midweek clear north, rain south, end of week chance of snowstorm with cold temperatures

Greater New York-New Jersey: Seasonable temperatures at start of week, midweek freezing rain, snow west, end of week sunny and cold

Middle Atlantic Coastal: Beginning of week seasonable, midweek snow, heavy in mountains, end of week cloudy and cold, intermittent snow

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Westminster Livestock Auction

State Graded
Feeder Pig Sale
Friday, Dec. 26, 1986

1,423 PIGS: Last month 1,683; Compared to November prices were $10.00 lower on pigs over 50 lb., and $20.00-25.00 lower on pigs under 50 lb. All pigs weighed on arrival and sold by the pound.

1&2: 11 hds. 22-30 lbs. 112.00-152.00; 187 hds. 32-39 lbs. 115.00-129.00; 416 hds. 40-49 lbs. 107.00-122.00; 350 hds. 50-59 lbs. 93.00-110.00; 187 hds. 60-69 lbs. 88.00-97.00; 53 hds. 72-78 lbs. 76.00-86.00; 35 hds. 83-91 lbs. 71.00-78.00.

2: 44 hds. 30-38 lbs. 104.00-120.00; 53 hds. 41-48 lbs. 87.00-107.00; 20 hds. 58 lbs. 87.50; 14 hds. 60 lbs. 76.00-89.00.

2&3: 18 hds. 35 lbs. 100.00; 7 hds. 44 lbs. 99.00.

CULLS: 22 hds. 35-75 lbs. 40.00-90.00.

NEXT SALE JANUARY 23rd, 1987 - 1:30 P.M.

Penns Valley Livestock

Centre Hall, Pa.
Tuesday, Dec. 30
Report supplied by Auction

Beef Cows: Utility and Commercial 36.50-39.25; Cutters 33.00-36.00; Canners 30.00-32.75; Shells 25.00 low.

Heifers: Commercial 40.00-46.00.

Steers: Good 47.00-50.50; Standard 41.00-46.50.

Bulls: Good 43.50-45.00.

Veal Calves: Choice 67.00-86.00; Good 54.00-66.00; Standard 41.00-53.00; Utility 32.00-40.00.

Farm Calves: Bulls 85.00-111.00.

Hogs: 44.00-46.75.

Sows: 38.85-44.00.

Boars: 30.50-33.75.

Lambs: 58.00-69.00.

Goats per head 51.00-55.00.

New Holland Horses

New Holland Sales Stables
New Holland, PA
Monday, Dec. 29, 1986
Report supplied by auction

Registered receipts of 185 head of horses, mules and ponies.

Market: higher.

Local

Work Horses Singles 450.00-840.00.

Driving Horses 275.00-835.00.

Riding Horses 175.00-500.00.

Lightweight Killers 150.00-225.00.

Heavyweight Killers 275.00-365.00.

Mare Ponies 30.00-60.00.

Colts 10.00-20.00.

Gelding Ponies 30.00-60.00.

Larger Ponies 75.00-140.00.

Grantsville Livestock

Grantsville, Maryland
Saturday, Dec. 27, 1986

Large: 63-80; Medium: 45-55.

HOGS: Top Barrows & Gilts 50.50-53.50; Heavy Butcher 49.00-52.50; Light Butcher 42.00-49.00; Butcher Sows 40.00-48.00; Feeder Shoats 20.00-51.00.

VEAL: Good 60.00-78.00; Standard 45.00-55.00; Utility 32.50-40.00; Bull Calves 75.00-98.00.

SHEEP & LAMBS: Good 65.00-70.00; Utility 52.00-60.00; Slaughter Ewes 20.00-30.00.

SLAUGHTER CATTLE: Steers: Choice none available; Good 52.00-53.50; Standard 48.00-50.00; Utility 40.00-45.00.

HEIFERS: Good none available; Standard 45.00-52.00; Utility 38.00-42.00.

COWS: Commercial 34.00-39.00; Utility 30.50-33.00; Canner & Cutter 30.00-down.

BULLS: Commercial & Good 45.00-53.50; Cutter & Utility 35.00-42.00.

STOCK-FEEDER CATTLE: (Yearling Steers) Good 52.00-58.00; Medium 40.00-48.00.

STEER CALVES: Good 54.00-59.00; Medium 42.00-50.00.

HEIFER CALVES: Good 45.00-52.00; Medium 35.00-40.00.

Peoria Cattle

Thursday, Dec. 31, 1986
Report Supplied by USDA

Compared with last week's close slaughter steers and heifers closed steady to weak. Cows closed steady to 1.00 higher, bulls steady to 2.00 higher. Bulk of supply Monday with Wednesday's pre-holiday supply light. Supply mainly good to average choice slaugher steers and heifers with 20% cows. Estimated receipts this week about 1200 compared with actual receipts of 1111 last week and 1157 a year ago.

SLAUGHTER STEERS: Choice 2-4, mostly 3 1050-1250 lbs. 58.00-60.00, loads 60.50. Mixed good and choice 2-3 1000-1200 lbs. 55.00-57.50, good 2-3 900-1100 lbs. 52.00-56.00. Good and choice 2-3 holsteins 1200-1350 lbs. 50.00-53.00.

SLAUGHTER HEIFERS: Choice 2-4, mostly 3 950-1125 lbs. 57.00-58.50, mixed good and choice 2-3 900-1050 lbs. 54.50-56.00. Good 2-3 800-1000 lbs. 51.00-55.00.

COWS: Breaking utility and commercial 2-3 33.00-35.00, cutter and boning utility 1-2 30.00-35.00. Canner and low cutter 28.00-32.00.

BULLS: YG 1-2 1500-2200 lbs. 39.00-42.50.

Green Dragon Livestock Sales

Location: Ephrata RD 4. 1 mile N. on North State St., Ephrata.

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Lots of good Northern Feeder & Stockers. Slaughter Cows - Bull Steer, Veal-lamb.

11:00 A.M.-Beef Sale 200-300 each week.
1:00 P.M.-Dairy Sale.
7:00 P.M.-Small Animal Sale.

For Special Sales and Herd Dispersals on farm or at our barn or other market information call: Office 717-733-2444, Home 717-838-4318.

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ON THE FARM MONTHLY

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1:00 P.M.
Sale To Start Promptly Every 4 Weeks

Located 18 miles south of Lancaster, Pa., 6 miles south of Quarryville, take Rt. 272 to Little Britain, turn north, follow Little Britain Road to Jackson Road, right. 2nd farm, OR take Rt. 222, out of Quarryville to Cedar Hill Road to Little Britain Road to Jackson Road, left. Watch for sale arrows.

50 to 60 Head
WHITE DIAMOND GILTS
Here Now a new cross again. Large White & Landrace, first generation true F-1 gilts. Parent stock originated from Lieske Bros. Minnesota. Very productive in litter size and feed conversion.

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Local Truck Available
No Hogs Sold On Commission

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R.D. 1, Kirkwood, Pa.
Abe Diffenbach, Auctioneer AU225L

NEXT SALE DATE FEBRUARY 13, 1:00 P.M.

VIRGINIA MARKETS

Livestock market and auction news

Shenandoah Valley Livestock

Harrisonburg, Va.
Saturday, Dec. 27
Report supplied by auction

FEEDER CATTLE TREND: STEERS: Steady. M&L-1 300-500 lbs. 57.50-68.00; 500-700 lbs. 53.00-60.50; 700-1000 lbs. mostly 57.00-61.00 few; Holstein 300-1000 lbs. S-L&M&L-2 500-700 lbs. 51.00-53.00.

FEEDER BULLS: M&L-1 300-500 lbs. 52.00-61.00; 500-700 lbs. 49.00-55.00. S-L&M&L-2 500-700 lbs. 42.00-45.00.

HEIFERS: M&L-1 300-500 lbs. 49.00-54.75; 500-700 lbs. 47.00-51.25; 700-1000 lbs. 44.00-49.00 (1 at 50). S-L&M&L-2 300-500 lbs. 45.00-51.00; 500-700 lbs. 44.00-46.00.

STOCK COWS: Beef 445.00; Baby Calves Small 50.00-90.00; Large 94.00-100.00.

SLAUGHTER CATTLE TREND: Heifers Standard 41.00-43.50.

SLAUGHTER COWS TREND: Utility & Commercial 2-4 33.00-38.00; Canner & Cutters 1-3 27.00-32.25.

SLAUGHTER BULLS: 1&2 39.00-45.75.

LAMBS: Blue 0 High Choice & Prime 67.25; Red O Choice 65.25; Feeder Lambs Choice 72.25; Slaughter Ewes 19.50-33.25.

HOGS: Few Home Slaughter 250-300 lbs. 50.50; Sows 1-3 41.00-43.50; Boars 30.50.

SLAUGHTER CALVES: Good & Choice 49.00-56.50.

Dewart Livestock Auction

Dewart, Pa.
Monday, December 29, 1986
Report Supplied by PDA

CATTLE 198..PDA...Compared with last Monday's market: Slaughter cows about steady. Good slaughter steers 51.75-56.75, few Choice holsteins 51.75-53.85, few Standard 43.25-47.50. Couple Choice slaughter heifers 51.60&57.25. Breaking Utility slaughter cows 35.75-38.25, couple 41.00, Cutter & Boning Utility 34.25-37.75, Canner & Low Cutter 30-34.25, Shells down to 26.00. Good slaughter bullock, individual 51.25. Few Yield Grade No. 1, 1000-1835 lbs. slaughter 42.00-47.75, few No. 2, 775-1025 lbs. 38-42.50.

CALVES 250...Few Choice vealers 85.00-98.00, few Good 65.00-80, few Standard and Good 110-125 lbs. 55.00-60.00, 70-105 lbs. 47.00-54.00, Utility 60-80 lbs. 40.00-48.00. Farm Calves: Holstein Bulls 90-130 lbs. 80.00-117.50, few down to 52.00.

HOGS 69...US No. 2-3 220-245 lbs. barrows and gilts 48.50-50.10 52.75. Few US No. 1-3 375-700 lbs. sows 35-38.00, few Medium 210-260 lbs. 27-33.75. Few Boars 32.75-40.00.

FEEDER PIGS 111...US 1-3 25-25 lbs. feeder pigs 30.00-36.00, 40-60 lbs. 41.00-53.00 — all per head.

SHEEP 0...No market test.

GOATS 7...Few Large 39.00-50.00 — all per head.

Eighty-Four Livestock Auction

Eighty-Four, Pa.
Monday, December 29, 1986
Report Supplied by PDA

CATTLE 358... PDA...Compared with last Monday's market: Slaughter cows mostly steady. Couple Choice slaughter steers 56.00, few Good 52.00-55, Standard 45.00-49, few Utility 39.00-43.00. Couple Choice slaughter heifers 54.00, few Good 48.00-50.00, Standard 39.75-43, few Utility 37.00-40.00. Breaking Utility and Commercial slaughter cows 37.00-40.00, few 42.50, Cutter and Boning Utility 34.00-38, Canner and Low Cutter 28.00-34, Shells down to 23.00. Yield Grade No. 1, 1200-1800 lbs. slaughter bulls 42.00-45, No. 2 900-1500 lbs. 38.00-41.50. Feeder Cattle: Medium & Large Frame No. 1, 400-700 lbs. steers 50.00-57. Few Medium Frame No. 1, 350-500 lbs. heifers 44.00-51, No. 2, 400-500 lbs. 39.00-42. Large Frame No. 1, 450-650 lbs. bulls 55.00-57.00.

CALVES 224...Few Choice vealers 80.00-84, Good 62.00-73.00, Standard and Good 90-120 lbs. 45.00-55.00, 60-85 lbs. 38.00-46.00, few Utility 50-95 lbs. 30.00-38.00. Farm Calves: Holstein bulls 90-125 lbs. 70.00-130.00.

HOGS 108...Barrows and gilts .50-$1 lower. US No. 1-2 235-255 lbs. 48.50-49.75, lot 51.75, 1-3 220-250 lbs. 47.50-48.50, 2-3 230-255 lbs. 46.00-47, lot 290 lbs. 44.50. US No. 1-3 340-600 lbs. sows 43.00-47.00. Boars 32.00-36.00.

FEEDER PIGS 13...Few US No. 1-3 50-75 lbs. feeder pigs 38.00-50, few Utility 20-35 lbs. 13.00-23.00 — all per head.

SHEEP 113...Wool slaughter lambs $3-$5 lower. Lot High Choice 83 lbs. 77.00, Choice 80-90 lbs. 72.00-75.00, Good & Choice 50-75 lbs. feeder lambs 64.00-77.00. Slaughter sheep 20.00-27.00.

GOATS 3...12.00-25.00 – per head.

New Holland Sales Stables

New Holland Dairy
Wednesday, Dec. 31, 1986
Report supplied by auction

Reported receipts of 133 cows, 65 heifers and 8 bulls. Market stronger, on better cows.

2 Loads of PA & Conn. fresh cows, 700.00-1325.00.

Load of Pa. fresh cows, 768.00-875.00.

Load of Pa. fresh cows 650.00-1,250.

1 herd of 75 head all stages 290.00-1,025.00.

Load of local springing heifers 520.00-7890.00.

Load of bulls 370.00-740.00.

Load of local cows 460.00-925.00.

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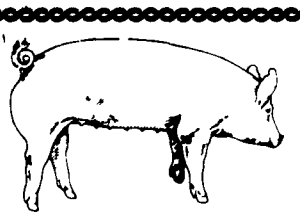

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Will Receive Your Hogs and Cattle at the
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RD 4, Danville, PA

- We will receive your hogs from 8 AM to 12 Noon every Monday. Your hogs will be weighed and paid for immediately.
- We will also accept your sows & boars.
- Your cattle will be received from 12:30 to 5 P.M. We will either pay you for your cattle immediately or you may sell them dressed weight.
- There will not be a commission or yardage fee deducted from your check.
- You may call our office Monday morning and we will be able to tell you the base price for hogs for the day.

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- Outlook and Needs For The Produce Grower

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Lancaster Farming

OPINION

Let The Public Know Where Good Food Comes From

One of the major farm production situations that face us American farmers in the new year revolves around exports and imports. At the recent 1987 Agricultural Outlook Conference in Washington, speaker after speaker postulated on the shrinking export market. We were told that countries that can afford to buy our farm products have developed the technology to produce their own foods and feed stuffs. Many examples can be given where this technology was copied from U.S. farmers and agribusiness enterprizes. Part of this has come about because foreigners who attend our farm trade shows and informational seminars stay awake and take notes.

Dr. Dave Kohl, professor of agricultural finance and economist at Virginia Polytech, told the Lancaster Farm Credit press briefing participants recently that he held a seminar where all the foreigners in the class were wide awake and taking notes and all the U.S. farmers were falling asleep. He stopped his lecture and told these American farmers that they were a perfect example of why foreigners have gained much ground in agricultural technology in recent years. Needless to say, the farmers stayed awake after that.

But while it seems bad enough that we have at least in part given our production secrets to the competion, there is more salt in the wound. Our own American food processors and fast food services have gone to foreign sources for products.

In a recent issue of the Journal of Commerce the president of a major vegetable processor was quoted as saying that during their last fiscal year, they had imported 261.6 million pounds of food or food products. Ten years ago that figure was 63 million pounds. And while this company has the image of being as all-American as apple pie, yet that "soup that's good food" may not necessarily have come from tomotoes grown in New Jersey, Pennsylvania or Maryland. The home-grown winter-warming plate of high nutrition may very well have its roots in Mexico where tomatoes cost $20 to $40 a ton less than our own U.S. product. Of course, the all-American hamburger at any of the local fast-food eateries may have come from Argentia, too. And the fries were likely done in Malaysian palm oil rather than the more expensive vegie oil from Illinois.

The National Food Processors Association in Washington calls this phenomenon world-sourcing of commodities. They say it must be done because U.S. land and labor costs are high. Of course no one will say if the imported farm products have the same high quality as the U.S. produce and meats. In fact most food processors don't want to talk about buying food overseas. And while it makes good business sense to them to buy abroad, they don't want to lose their all-American image. And they don't want a fight with U.S. farmers. They want to trade on the good reputation of American farmers to produce succulate, high-quality foods while substituting products that come from countries with lower standards and longer shipping times from farm to table.

We think one of our major New Year's resolutions should be to get the message out to the American consumer. Let's let them know that really good food comes from the American farmer and all the agribusiness firms who get the food from the farm to the American table quickly and in excellent style.

NOW IS THE TIME

By Jay Irwin
Lancaster County Agriculture Agent

To Attend Farm Show Events

Time has a way of creeping up on us, and here it is ...nearly Farm Show time. The Farm Show will open again this year on Sunday, Jan. 11 and close on Friday, Jan. 16. The theme for the exhibition is "Pennsylvania Agriculture — Progress Through Technology". Well, we are proud of our agriculture because of the hard work of our family-operated farms. And here is an opportunity for our farmers to show the consuming public the high quality products raised on our farms today.

Active farmers should recognize the many educational meetings and banquets that are held during the week. Many of these are statewide organizations and should have economic benefits to the producer.

To Separate New Animals

The addition of a new animal to the herd or flock, is a common practice. However, there is always the chance of bringing new infections into the herd. Too many diseases and problems have been brought onto the farm by the owner. At this time of year and in this part of the state, the Pa. Farm Show provides an opportunity for showing and purchasing new ones. To those who are exhibiting animals, and to those who might buy a bred gilt, or other animals, I'd say be sure to separate these animals from the rest of the herd or flock for at least 30 days. The other alternative is to treat all animals in the herd or flock for the same infections as the new animal has received. Sanitation and separation are very important items in good health programs.

To Be a Better Manager

As we look ahead to 1987, it is difficult to realize just what major problems will confront the average farmer. It remains to be seen what affect the Farm Bill and tax changes will have on agriculture. However, it is evident that profits will be difficult to realize and some very good management will be needed to come out in the black.

Today's farmer must be a better businessman than his forefathers. A farmer must be able to handle labor, money, equipment and keep up-to-date on all regulations and cultural practices. A farmer must be able to plan ahead to be organized with all the responsibilities. A farmer should practice good public relations with neighbors and respect the rights of others. Good management is just as important in farming as it is in any other industry or business. Work at it and it will pay dividends.

To Be Sure Ice is Safe For Skating

Farm ponds make great ice skating rinks...that's as long as the ice is strong enough. The general rule on thickness is that two inches will support one person and three inches will support a line of people. Thickness is not always the most accurate guide though. Other factors include color and age. New ice is stronger than old ice. And clear blue ice is stronger than slush ice. Be especially cautious with ponds that are either fed by a spring or have a fast moving current. The thickness of these ponds will vary considerably.

The most important thing is to have rescue equipment at the pond site. It is wise to have a straight ladder, rope and inner tube nearby...it could save a life. I would urge owners of farm ponds to use caution in permitting skating unless the ice is thick enough.

The Cooperative Extension Service is an affirmative action equal opportunity educational institution

Farm Calendar

Monday, January 5

Hunterdon County Sheep Breeder's Association monthly meeting, Extension Center, 8 p.m.

Tuesday, January 6

Ephrata Area Young Farmer's officers banquet meeting, Ephrata Jr. High School Conference Room, 7:30 p.m.

Franklin County Dairy Day, Kauffman Community Center, 9:15 a.m. to 12:45 p.m.

Eastern Regional Nurserymen's Association trade show, Monticello, N.Y.

Wednesday, January 7

Hunterdon County board of ag monthly meeting, Extension Center, 8 p.m.

Bucks County Federal Income Tax Meeting, Meyers Restaurant, Rt. 309 Quakertown, 9 a.m. to 4 p.m.

Schuylkill County Dairy Day, 9 a.m. to 3 p.m., Penn State Schuylkill Campus, Schuylkill Haven. Contact J. Allen Shoener, extension agent, 717-385-3431.

Franklin County Dairy Day, Kauffman Center.

Thursday, January 8

Christmas Tree Pest Management Short Course, Buckhout Lab, Penn State University; continues tomorrow.

York County Commercial Dairy Day, 4-H Center, 10 a.m. to 2:30 p.m.

Income Tax Meeting, Lancaster Farm and Home Center, 9:30 a.m. to 4 p.m.

Farrowing Short Course, Penn State University, 9 a.m. to 5 p.m.

Regional Tomato Growers Meeting, Thompson's Dairy Bar (Lackawanna County). Phone 963-6842 for information.

Adams County Extension Banquet.

Mercer County Dairy Nutrition

(Turn to Page A36)

FARM FORUM
OUR READERS WRITE

Dear Editor:

Rabies Rabies Rabies

Who is to blame for the Game Commission trappers' license? Those who trapped and caught anything, stray dogs, cats, skunks, just anything. And the majority was disposed of.

What does the Commission want? More money to buy up more land for which they are tax exempt–every acre, farm or mountain.

Our tax goes up to feed the overfed Game Commission.

Sincerely,
Joseph Borkoski
Dornsife

THE BIBLE SPEAKS

BY LAWRENCE W. ALTHOUSE

WHO'S LOOKING?
January 4, 1987

Background Scripture: Matthew 5:17-20; 6:1-18.
Devotional Reading: Isaiah 58:1-7.

Most religions and especially Christianity make an appeal to altruism — unselfish concern for or devotion to the welfare of others. Nevertheless, Jesus began his teachings at a level where all of us can respond: the common expectation of getting something in return for what we give.

Do you want to be first? Well, then you can do so by being last. Do you want to save your life? Then you must be willing to give it up. Do you want to be on the receiving end? Ah, then you must be ready to start on the giving end. Shall we not feel "good" about helping someone who is in need? Shall we feel no sense of victory in having overcome temptation? Even Jesus, dying on a cross, felt a sense of satisfaction in doing God's will. He felt "good," not about dying, but about obeying.

SOUND NO TRUMPET

If we give alms, fast or practice our piety, Jesus promises us a reward: "your Father . . . will reward you" (Matt. 6:4,6,18). But the reward we shall seek in doing these things is not acclaim and recognition from others. So Jesus warns us, "Beware of practicing your piety before men in order to be seen by them" and "when you give alms, sound no trumpet before you" (Matt. 6:1a,2a). "And when you fast, do not look dismal, like the hypocrites, for they disfigure their faces that their fasting may be seen by men. Truly, I say to you, they have their reward" (6:16).

Jesus does not ask us to respond to his teachings without looking for some kind of reward. Instead, he makes sure that we seek the very highest reward of all — to please God, not other people. This is the reward we must seek and, if we are satisfied with the mere praise of people along the way, Jesus warns us that "you will have no reward from your Father who is in heaven" (6:1).

The reward which God gives us is a prize that is earned and given in secret — "so that your alms may be in secret; and your Father who sees in secret will reward you" (6:4). Similarly, we are to "pray to your Father who is in secret; and your Father who sees in secret will reward you" (6:6).

YOUR AUDIENCE

It is not a question of whether we play to an audience, but that we play to the right audience. The Pharisees were criticized because they played to the wrong audience. They wanted the praise of men and they got it. And in doing so, they missed the highest prize of all — the approval of God and the satisfaction in knowing that our deeds have been witnessed by the only one who really counts. Nothing is more fleeting than human acclaim and nothing is more satisfying and lasting than Divine approval.

There is always someone looking when we are obedient to God. Let us make sure that it is God who is watching and it is him whom we are pleasing.

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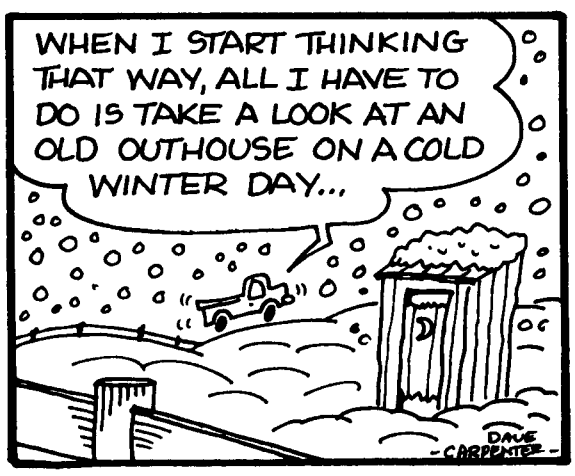

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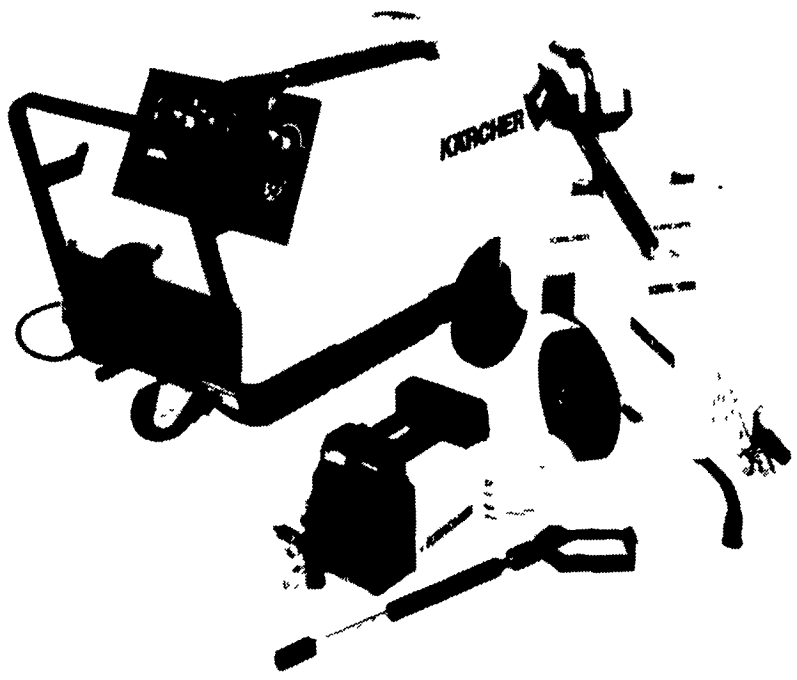

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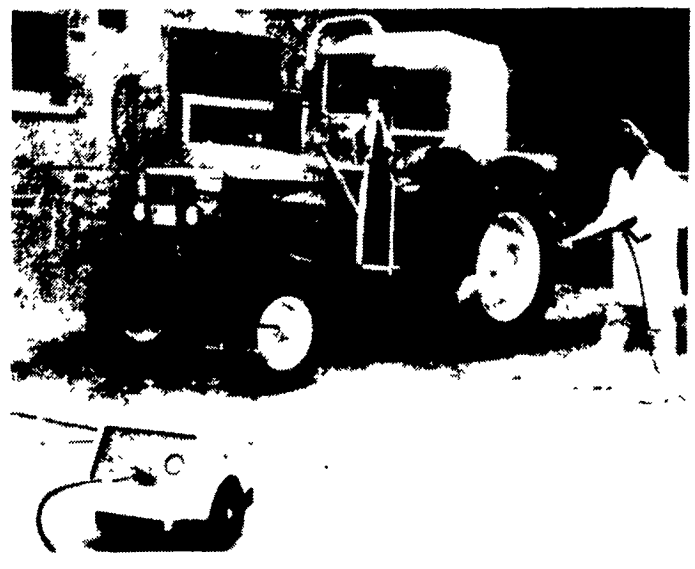

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Livestock market and auction news

Some markets not covered by PDA or USDA due to holiday

Frederick Livestock

Monday, Dec. 29, 1986

BUTCHER COWS: Large run, mostly steady prices. Good 37.50-40.00; Standard & Utility 33.00-37.00; Canners 28.00-32.00; Shelly 30.00-Down.

BULLS: Good 2 bulls at 50.75; Medium 37.00-42.00.

BUTCHER HOGS: $2.50 lower. 220-245 lbs. 46.50-47.00; 250-270 lbs. 45.50-46.25.

SOWS: 300-450 lbs. 38.50-45.00; Thin sows: 32.50-38.00.

VEAL CALVES: $1-$2 higher. Good-Choice 63.00-70.00; Standard 56.00-62.00; Stocky & Thin 50.00-55.00; Light Calves 44.00-51.00; Weak & Rough 43.00-Down.

CALVES RETURNING TO FARM: Strong demand, steady prices. Holstein Heifers 90-120 lbs. 50.00-60.00; Holstein Bulls 90-95 lbs. 60.00-75.00; 100-115 lbs. 95.00-108.00.

LAMBS: Good & Choice 64.00-70.00; Medium 60.00-63.00.

STOCK CATTLE: Steady, lightweight, $3 higher. Steers: Few lightweights 56.00-62.00; Good 50.00-55.00; Medium 45.00-49.00; Heifers: Few lightweights 47.00-55.00; Good 41.00-46.50; Medium 37.00-40.00; Bulls: Good 45.00-48.00; Medium 41.00-44.00.

SPRINGING HEIFERS: 485.00-710.00.

PIGS & SHOATS: Light run, steady prices. By The Head: 35-45 lbs. 30.00-38.00.

New Wilmington Livestock Auction

New Wilmington, Pa.
Monday, December 29, 1986
Report Supplied by PDA

CATTLE 240...PDA. Compared with last Monday's market: Slaughter cows steady to weak. Few Choice slaughter steers 56.75-58, few Good 52.00-54, few Standard 48.00-50, few Utility 41.75-43.25. Few Choice slaughter heifers 54.75-55.25, few Good 49.00-53, few Standard 40.50-45, few Utility 36-38.25. Breaking Utility and Commercial slaughter cows 37.00-40, one 40.75, Cutter & Boning Utility 33-37.75, Canner & Low Cutter 28.50-33.75. Standard slaughter bullock, individual 45.00, few Utility 38.00-42. Couple Yield Grade 1, 1520&1485 lbs. slaughter bulls 44.00&48.00. Feeder Cattle: Medium Frame No. 1, 320-650 lbs. steers 49.00-59.50. Few Medium Frame No. 1, 450-550 lbs. heifers 40.00-47.00. Medium & Large Frame No. 2, 370-790 lbs. bulls 34.00-40.00.

CALVES 302...Choice vealer, individual 94.00, few Good 68.00-79, Standard and Good 90-125 lbs. 45.00-60, 65-85 lbs. 30.00-49, Utility 50-85 lbs. 10.00-20.00. Farm Calves: Holstein Bulls. 90-135 lbs. 75.00-122.00.

HOGS 345...Barrows and gilts .50-$1 lower. US No. 1-3 210-260 lbs. 46.50-48, 2-3 215-260 lbs. 45.50-47, lot 44.50, lot 1-3 190 lbs. 46.50. Few US No. 1-3 300-635 lbs. sows 38.00-44.75. Few Boars 37-37.50.

FEEDER PIGS 39...US No. 1-3 25-35 lbs. feeder pigs 27.00-40.00, 35-45 lbs. 37.00-48.00 — all per head.

SHEEP 122...Choice and Prime 70-85 lbs. wool slaughter lambs 73.00-79.00, 90-120 lbs. 66.00-74, Lot Choice 127 lbs. 59.00. Slaughter ewes 18.00-21.00.

GOATS 28...10.00-43.00 — per head.

Westminster Livestock Auction

Hagerstown, Md.
Tuesday, Dec. 30
Report supplied by auction

SLAUGHTER COWS: steady prices. High Yield 38.00-39.00; Utility 34.00-38.00; Canners 31.00-35.00; Shelly 30.00-Down; Bulls Medium to good 40.00-42.00; Medium 35.00-40.00. Fed Steers- Good Low Choice 52.00-54.25; Good 46.00-49.00; Standard 40.00-45.00. Fed Heifers- Holsteins 38.00-44.00. Veal Calves- Choice 1 240 lbs. at 90.00; Killers 80-100 lb. 45.00-50.00; Weak/Rough 40.00-Down. Farm Calves- Holstein Bulls- 100-125 lb. 90.00-110.00; 90-95 lb. 70.00-85.00. Holstein Heifers 90-130 lbs. 48.00-57.00. Butcher Hogs- Good Run, $1 Lower. US #1&3 215-240 lb. 47.00-48.00; 240-260 lb. 45.00-47.00; 195-210 lb. 47.00-47.50; 280-325 lb. 41.00-44.25. Sows- 500-600 lb. 39.00-42.00; 300-500 lb. 38.00-46.00 Thru 30.00-34.00. Boars- 400-600 lbs. 32.75.

STOCK CATTLE- Light run, mostly heifers. Steers Few offered 300-700 lbs. Good 50.00-57.00; Holstein Cross 850-950 lb. 40.00-41.00. Heifers- 300-700 lbs. Good 47.00-51.50; Medium 40.00-46.00. Bulls- 500-700 lbs. Medium 40.00-45.00. Lambs - 25 head Chocie 100-115 lb. 63.00-65.50; 80-90 lbs. 57.00-65.50; 50-75 lbs. 60.00-70.00. Sheep- 28.00-35.00. Yrlg 40.00. Goats 22 head- Medium 35.00-50.00; Small 20.00-35.00. Pigs and Shoats 60 head. By the Head 1 lot 25 lbs. 30.00; 50-60 lbs. 47.00-51.00. By the lb. 1 small lot 137 lb. 42.00; Stock Boar 240-340 lbs. 33.00-34.50.

Valley Livestock

Athens, Pa.
Monday, Dec. 29
Report supplied by auction

Holstein Hfr. Calves to 60.00.
Veal Calves 65.00-95.00.
Vealer Bull Calves 75.00-127.00.
Slaughter Calves 50.00-60.00.
Grassers & Feeders 35.00-50.00.
Lambs 50.00-71.00.
Sheep 12.00-18.00.
Hogs, 200 to 250 47.00-50.00.
Sows 34.00-39.50.
Boars 34.00-38.50.
Pigs each to 28.00.
Heifers 36.00-43.25.
Steers 39.00-45.00.
Steers, feeder 38.00-50.00.
Bulls 38.00-48.50.
Cows, utility 36.00-39.00.
Cows, fat 35.00-38.00.
Cows, medium 32.00-34.00.
Cows, poor or small 27.00-32.00.
Cattle Market steady.
Calf Market real good.
Ponies each to 40.00.
Goats each to 46.00.
Remarks: Real active market.
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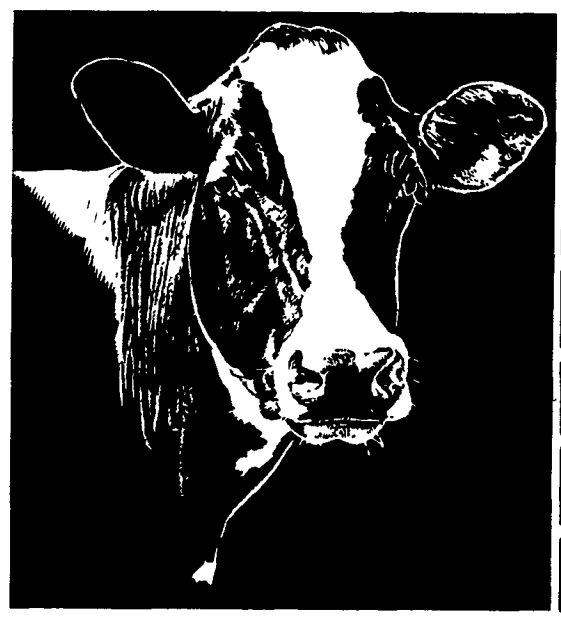

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Livestock market and auction news

Mercer Livestock Auction

Mercer, Pa.
Tuesday, December 30, 1986
Report Supplied by PDA

CATTLE 201...PDA. Compared with last Tuesday's market: Slaughter steers .50 to $1 lower; Cows mostly steady. Choice slaughter steers 57.00-61, yield grade #2 61.75-62.25, Good 52.00-57.50, Standard 47.00-52.25, few Utility 39.00-43.00. Few Choice slaughter heifers 54.00-57.00, Good 49.00-54.00, Standard 42.00-47.00, Utility 38.00-42.00. Breaking Utility and Commercial slaughter cows 36.50-40.00, Cutter and Boning Utility 32.50-37.00, Canner and Low Cutter 27.00-33.00, Shells down to 23.00. Few Yield Grade No. 1, 1400-1700 lbs. slaughter bulls 43.00-47.00,few No. 2, 1200-1700 lbs. 39.00-42.00. Feeder Cattle: Few Medium Frame No. 1, 380-600 lbs. steers 47.00-53.00. Medium Frame No. 1, 400-650 lbs. bulls 42.00-49.00.

CALVES 89...Few Good vealers 68.00-74.00, Standard and Good 90-120 lbs. 46.00-56.00, 60-85 lbs. 39.00-46.00, few Utility 50-80 lbs. 20.00-31.00. Farm Calves: Holstein Bulls 90-125 lbs. 60.00-75.00.

HOGS 204...Barrows and gilts $1.50-$2 lower. US No. 1-2 220-250 lbs. 46.50-48.00, lot 48.35, 1-3 210-250 lbs. 45.00-46.50, 2-3 205-260 lbs. 44.00-4n50. US No. 1-3 300-600 lbs. sows 38.00-40.00, few 2-3 300-580 lbs. 36.00-38.50. Few Boars 36.00-38.00.

FEEDER PIGS 0...No market test.

SHEEP 0...No market test.

GOATS 0...No market test.

Keister's Middleburg Livestock Auction

Middleburg, Pa.
Tuesday, December 30, 1986
Report Supplied by PDA

CATTLE 387...PDA. Choice 1050-1400 lbs. slaughter steers 56.50-61.60, Good 50.00-57, few Standard 40.00-44.75; few Choice holsteins 51.00-53, Good 46.00-50.00. Choice slaughter heifers 52.00-58.75, few Good 48.00-50.00. Breaking Utility and Commercial slaughter cows 35.75-38.75, few 42.50, Cutter and Boning Utility 34.25-37.25, Canner and Low Cutter 30.50-34.50, Shells down to 27.50. Few Good slaughter bullocks 49.75-54.00. Yield Grade No. 1, 1200-1725 lbs. slaughter bulls 42.00-47.75, couple down 38.60. Feeder Cattle: Medium Frame No. 1, 400-700 lbs. steers 45.00-52.00.

CALVES 198...Few Choice vealers 80.00-90.00, few Good 60.00-70.00, Standard and Good 70-100 lbs. 42.00-51.00, Utility 60-80 lbs. 30.00-45.00. Farm Calves: Holstein Bulls 90-130 lbs. 85.00-105, few to 116.00, few Small Frame 85-90 lbs. 51.00-55.00.

HOGS 468...US No. 1, 220-235 lbs. barrows and gilts 54.00-55.75, 1-2 215-240 lbs. 53.00-54, 2-3 200-250 lbs. 50.50-53.00, 2-4 200-270 lbs. 48.25-50.50. US No. 1-3 280-650 lbs. sows 38.00-42, couple 49.75, 2-3 285-550 lbs. 33.00-38.00. Boars 32.00-33.00.

FEEDER PIGS 358...US No. 1-3 20-35 lbs. feeder pigs 36.00-47.00, 35-55 lbs. 45.00-57, 75-100 lbs. 62.50-67.00 — all per head.

SHEEP 7...Few Choice 90-105 lbs. wool slaughter lambs 68.00-75.

GOATS 12...Large 35.00-110.00 — per head.

North Jersey Livestock

Hackettstown, NJ
Tuesday, Dec. 30
Report supplied by auction

Calves-.18-1.10.
Cows 25.00-45.75.
Easy Cows .07-33.50.
Heifers 35.00-51.75.
Bulls 33.25-51.25.
Steers 45.00-61.50.
Hogs 36.50-48.00.
Roasting Pigs, each 33.00-45.00.
Boars 33.50-35.00.
Sows 35.00-39.00.
Sheep .16-.60.
Lambs, each 15.00-70.00.
Lambs, per lb. .44-1.00.
Goats, each 20.00-100.00.
Kids, each 6.00-51.00.
Hides 23.00 each.
Total 1406.

Greencastle Livestock

Greencastle, Pa.
Monday, Dec. 29

CATTLE 840. SLAUGHTER STEERS: Choice & Prime 56.00-60.00, few to 63.60; Good & Choice 52.00-57.00; Good & Choice — Holstein 48.00-51.50; Standard & Good Holstein — 40.00-48.00.

SLAUGHTER HEIFERS: Choice 54.00-57.00, few to 59.00; Good & Choice 48.00-54.75; Standard & Good 40.00-48.00.

COWS: Utility & Commercial 35.00-37.00, few to 40.00; Cutter & Boning Utility 33.00-36.50, few to 39.00; Canner & Low Cutter 33.50 & down.

BULLS–ALL WEIGHTS: Yield Grade 1 47.00-51.75; Yield Grade 2 39.00-47.00.

STOCKER CATTLE--ALL WEIGHTS. Steers — Medium & Good 53.00-61.00; Heifers — Medium & Good 45.00-53.00; Bulls — Medium & Good 44.00-54.00; Steers — Holstein 35.00-41.00.

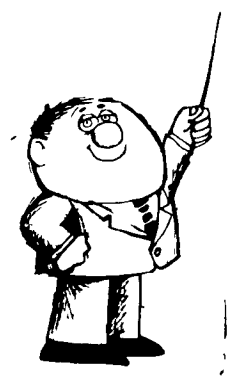
CALVES 491. Good & Choice — 125 to 250 pounds 70.00-85.00, few to 90.00; Medium & Good — 125 to 250 pounds 55.00-70.00; Medium & Good — 80 to 120 pounds 48.00-65.00; Light & Cull — all weights 48.00 & down; Holstein Bulls — return to farm up to 112.00; Holstein Heifers — return to farm up to 65.00.

LAMBS, SHEEP & GOATS 72. Choice Lambs 70.00-75.00; Medium & Good Lambs 55.00-63.00; Cull Lambs 30.00-50.00; Light & Good 70.00-100.00; Sheep, Ewes & Bucks 20.00-33.00; Goats — all sizes (by head) 15.00-45.00.

HOGS 139. No. 1-3 Butcher Hogs — 190-225 pounds 47.00-50.10; No. 1-3 Butcher Hogs — 225-250 pounds 49.00-50.70; No. 1-3 Butcher Hogs — 250-300 pounds 44.00-49.00; Good Butcher Sows — 400 pounds down 36.00-44.00; Good Butcher Sows — 400 pounds up 38.00-45.00; Heavy Boars — over 300 pounds 32.00-34.00; Pigs–all sizes (by head) 20.00-51.00.

Sale every Monday afternoon at 3:30 p.m.; Hay & straw sale every Monday at 1:00 p.m.

43 loads.
Alfalfa 120.00-156.00/ton.
Mixed 100.00-140.00/ton.
Timothy 110.00-135.00/ton.
Mulch 75.00-90.00/ton.
Straw 75.00-95.00/ton.



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VERTA + From NC + HYBRIDS

Has edged Out The Others Again And peaked On Top!

Results From:
1985 PENN STATE-USDA ALFALFA VARIETY TRIALS:
1986 Summary

	1986 Rock Springs, PA	1984-85 Hershey, PA	MEAN
VERTA +	7.70	8.45	8.08
edge	7.57	6.74	7.16
peak	7.58	—	—

ARKANSAS, WISCONSIN:

	1984 Total	1985 Total	1986 Total	2 Year Total	% Checks
VERTA +	4.05	8.00	5.21	17.26	114%
edge	3.83	7.84	4.85	16.52	109%
peak	—	—	—	—	—

WEST SALEM, WISCONSIN:

				3 Year Total	
VERTA +	7.92	6.74	5.81	20.47	106%
edge & peak	—	—	—	—	—

WEST SALEM, WISCONSIN:

				Total To Date	
VERTA +	—	5.55	6.43	11.98	104%
edge	—	5.40	6.36	11.75	102%
peak	—	—	—	—	—

MANHEIM, PA.:

				3 Year Total	
VERTA +	5.38	9.47	7.41	22.26	107%
edge	5.56	9.60	7.62	22.78	109%
peak	—	—	—	—	—

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Richfield, Pa.
SAM KNOUSE
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HAROLD Z. "RED" MUSSER
717-367-3076

Mercer, Pa.
RODNEY E. SEALAND
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NC + HYBRIDS
District Sales Manager
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RD #6, Box 456, Manheim, PA 17545
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☐ I Am Interested In Using Your Seed
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U.S. Inspected Livestock Slaughter

Estimated Daily Livestock

	CATTLE	CALVES	HOGS	SHEEP
Wednesday 12/31/86				
Week To Date (Est.)	379,000	37,000	902,000	61,000
Same Pd. Lt. Wk. (Est.)	326,000	38,000	772,000	59,000
Same Pd. Lt. Yr. (Act)	249,000	30,000	607,000	46,000

Central U.S. Carlot

Pork Report
Wednesday, Dec. 31
Report supplied by USDA

Compared to Tuesday's 3:00 P.M.: Fresh pork loins 14# Up 2.00-4.00 lower; Boston Butts generally steady; Skd Hams generally steady to 2.50 higher; Sdls Bellies 1.50-5.00 higher; other cuts generally steady trade and deamand moderate for light to moderate offerings.

US No. 2 175 lb. hog carcass declined .22 to 65.76 per cwt.
Loads Fresh Pork Cuts- 44.00.
Loads Trim/Process Pork- 9.00.

Fresh Pork Cuts
FOB Omaha Basis
Loins, Regular, Fresh
14-18 lbs. 7.0 lds. 96.00-100.00.
18-22 lbs. 1 ld. 98.00.
22/Up lbs. ½ ld. 90.00.
Tenderloins
2/Bag 305.00 A.
Picnics
4-8 lbs. 56.00 A.
8/Up 52.00 C.
Boston Butts
4-8 lbs. 2.5 lds. 88.00-90.00.
8/Up Lbs. 77.00 A.
Spareribs, Fresh
1.5-3.5 lbs. 0.5 lds. 115.00.
3.5-5.5 lbs. 0.5 lds. 98.00.
5.5/Up lbs. 46.00 B.
Spareribs, Frozen
1.5-3.5 lbs. 111.00-115.00 A.
3.5-5.5 lbs. 85.00-87.00 A.
5.5/Up lbs. 46.00-46.50 B.
Loin Backribs
1.5/Dn. lbs. 295.00-265.00 B.
1.75/Dn. 230.00 B.
1.75-2.25 150.00 B.
Hams, Skinned
Fresh
14-17 lbs. 66.50-70.00 D.
17-20 lbs. 9 lds. 61.00-65.50.
20-26 lbs. 8 lds. 58.00-61.00.
26-32 lbs. 1 ld. 56.00.
32/Up lbs. 1 ld. 53.00.
Hams, Skinned
Frozen
Bellies, Sdls,
Skin On, Fresh
10-12 lbs. ½ ld. 60.00.
12-14 lbs. 1 ld. 64.50-65.00.
14-16 lbs. 1 ld. 64.50-65.00.
16-18 lbs. 6 lds. 58.00-59.00.
18-20 lbs. 4 lds. 48.00-49.50.
20-25 lbs. ½ ld. 42.00.
Bellies, Sdls.
Skin On, Frozen
10-12 lbs. 54.00 C.
Pork Trimmings/
Boneless Processing Pork
(Chemical Lean)
Combo 42% Fresh 3.0 lds. 36.50-39.00.
Boxed Frozen 1 ld. 41.00.
Combo 72% Fresh 1.0 ld. 73.00.
Boxed Frozen 2 lds. 74.00-74.50.
Boneless Picnics
Combo 72% Fresh 1.00*** 75.00.
Boxed 72% Frozen 80.00 A.
Skinned Jowls
Combo Fresh 1 ld. 36.00.
Boxed Frozen 1 ld. 40.00 D.
Cured and Processed
Meats
Hams, Smoked,
Skinned, Water
Added
16-19 lbs. 73.00-77.00.
19-23 lbs. 69.00-76.00.
Picnics, Smoked,
Water Added
4-7 lbs. 71.00-74.00.
Bacon, Sliced,
Vac. Pack
1 lb. pkg. 134.00-179.00.

ABCDE After Market Quotes Represents Days Since Last Actual Reported Sales. Quotes Dropped After 5 Days.

GRAIN, CATTLE AND HOG FUTURES MARKETS

(Continued from Page A3)

WHEAT

	FRI.	MON.	TUES.	WED.	THURS.
MAR. 87	275¾	273¼	274¼	274½	
MAY	262¼	259½	260½	260¾	
JULY	246	244	244½	244¾	
SEPT.	247½	244¼	245	245¼	
DEC.	252	250	250	250½	

CHICAGO HOGS

	FRI.	MON.	TUES.	WED.	THURS.
FEB. 87	48.40	47.95	48.17	47.25	
APR. 87	43.97	43.70	44.17	43.55	
JUN.	46.32	45.90	46.05	45.62	
JUL.	46.45	46.10	46.42	45.67	
AUG.	43.60	43.27	43.62	43.17	
OCT.	40.75	40.45	40.52	40.62	

Four States Livestock

Hagerstown, Md.
Wednesday, Dec. 31
Report supplied by Auction

SLAUGHTER: Fed Heifers Good 43.00-45.25; Medium 38.00-42.00. Cows- mostly steady; High Yield 37.50-40.00; Average 32.00-37.00. Fat Bulls- Medium to good 41.00-43.50. Veal Calves- steady prices; Choice 65.00-76.00; Good 44.00-52.00. Farm Bulls 95.00-108.00.

STEERS- all weights Choice 55.00-57.00; Good 50.00-54.00; Medium 45.00-49.00. Heifers all weights. Good 43.00-47.00; Medium 38.00-42.00. Springing Heifers large 550-785 lbs. Pigs. hd. 20-30 lbs. 30.00-34.00; 30-60 lbs. 35.00-46.00. Shoats by the lb. 140-185 lbs. 46.00-48.00. Slaughter Hogs- 215-250 lbs. 45.75-46.75; 350-415 lbs. 41.50-48.50. Bulls- Med. to Good 39.00-42.25. Sows- 400-600 lbs. 36.00-39.75; 300-400 lbs. 32.00-35.00.

EVERGREEN TRACTOR CO., INC.

TRACTORS:
(1) White 2-105 w/Roll Guard ... Make Offer
MF 50 Gas (recently overhauled) ... $2,850
MH 22 w/3 pt. and 2 row cultivator ... $1,650
4620, PS, cab, overhauled ... $9,750
JD 3020 side console, gas ... $5,850
JD 2040 D SOLD ctor w/145 Loader
JD 2440 Tractor ... $8,950
JD 450 Crawler Loader ... $10,500
JD 148 Loader for a 2640 or 2840 Tractor ... $2,850
JD 2630 w/Cab ... $11,500
JD 3020 Diesel Syncro ... $5,850
JD 4 SOLD harp
Farmall 300 ... $1,500
JD 2510 Diesel, Syncro ... $5,850

COMBINES & PICKERS:
JD 454, 4 Row Bean and Sunflower Head ... $2,650
Gleaner M combine, 2 heads, nice ... $11,700
6620 Side Hill, turbo hydro, heater & air, monitor, spreader
6600 hydro, rotary screen, diesel, heater & air, chopper, US feeder house, monitor, adjustable rear axle, bin extension
6600 gear, rotary screen, diesel, monitor, heater & air, US feeder house, bin extension
4400 Diesel, rotary screen, heater, monitor, US feeder house, bin extension, chopper.
NI 324 2 Row Wide 12 Row 327 bed ... $3,950
NI 818 combine 4R narrow head & 13' flex head Sharp
NI 2 row narrow, pull type picker $3,950
(1) #343 3 Row 30"
(1) #443 Corn Heads
#244 Corn Head
#244 Corn Head
13' Grain Table
(2) #444 Corn Heads
13' Flex H SOLD lack Reel
15' Flex Head, Black Reel
JD 300 husker w/2 row $6,850
NI 2 row narrow w/sheller, A1 $3,950
JD 444 Corn Head
JD 343 Corn Head w/Harvester Adaptor ... $3,950

HAY MACHINES:
Hesston Hydro-Swing Mower Conditioner $2,750
Hesston PT10 Mower Cond ... $2,350
NH 850 Round Baler ... $3,850
JD #336 Baler w/#30 ejector
Hesston PT 10 Mower Conditioner ... $950
15' Hyd Fold Bat Wing Mower ... $2,150
MC 9' Ro SOLD ythe ... $1,450

GRAIN DRYERS:
New Farm Fans AB8 Auto-Batch Dryer. MUST MOVE. CALL FOR PRICE...
(Dealer Inquiries Welcome)

Coming in . . .
Hudson 14' Tandem Axle Trailer
JD 1450 4-16" Semi Mount Plow
JD 2500 4x18 Auto Reset Plow
JD 530 Tractor
JD 20x7 Model B Plain Drill, Double Disk
1 Row 3 pt Ellis vegetable planter
Brillion 9' Packer
Gehl #72 Flail Chopper, sharp

MISCELLANEOUS:
JD 201 Implement Carrier, 9'x32', New Style. $2,450
NI PTO 2 Beater Spreader, Model 214 ... $750
18.4x38 Direct Axle Dual Wheels
14.9x38 Direct Axle Dual Wheels
14.9x26 T-rail duals
NH 679 tandem axle spreader, hyd. endgate ... $3,850
NH #90 Bale Mover
NI 214 Spreader w/End Gate ... $1,850
Best Land Rock Picker ... $1,850
9 Tooth Folding Anhydrous Bar ... $1,250
Owatonna stack wagon, model #540 ... $3,450
Cattle Feeder Wagon ... $750.00
JD 18 4x38 Direct Axle Duals ... $1,250

TILLAGE:
Kewanee 19' Flat Fold Model #200 Field Cultivator ... $2,350
Kewanee #600 16' Wing Fold Disc. ... $2,950
JD 1010 Flat Fold Field Cultivator 18' ... $3,650
JD BWF 14' Flex Disc. ... $2,350
JD 1450 5x16 Plow ... $1,950
JD F845 Roll Over Plow (New) ... $2,850
JD SOLD 125 Plow. ... $475
JD 3-16 F620 Trailer Plow, nice $550
JD 4-16" F350 Auto Reset Plow ... $1,550
Brillion 1 SOLD ker (Big Shaft) ... $450
IH #55 11' Pull Type Chisel Plow $1,575
IH 19' Vibra Shank, like new ... $2,650
JD 145 4-16" Semi Mount Plow $1,250
JD 2500 5-18" Auto Reset Plow ... $3,450

HARVESTERS & FORAGE EQUIPMENT:
NH Super 717 Harvester ... $2,450
NH P.U Attachment ... $575
JD 35 Harvester, 2 row narrow & pickup, sharp ... $3,550
JD 15 Chopper $450

PLANTERS & GRAIN DRILLS:
JD 20x6 Model B Plain Grain with Grass D.D
JD 8 Row 7000 30" Planter
IH #10 15 Hole Drill, Sharp $1,475
JD 8100 14x7 Drill w/Grass, Sharp $2,150

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NEW 16' 3 BEATER
ARTSWAY FORAGE WAGONS
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New JD Weather Shields
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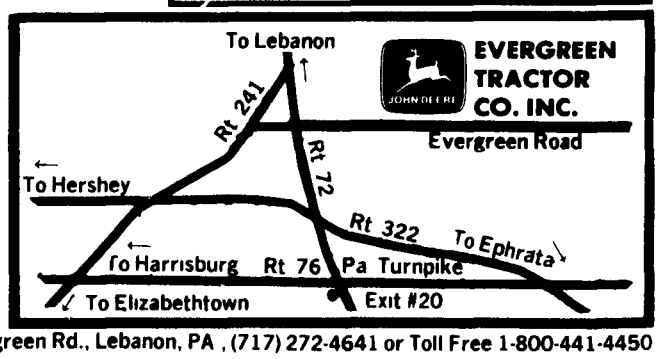

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Date of Planning To Build

Central U.S. Carlot

Beef Report
Wednesday, Dec. 31
Report supplied by USDA

Central U.S. Carlot beef report (includes the major production areas in the Midwest, Texas and Oklahoma) as of 11:15 a.m.

Due to holiday schedule, this report will be finalized at 11:15 a.m. today. There will be no report issued on January 1, 1987.

Compared to Tuesday's 3:00 p.m. report, choice 3 steer and heifers carcasses steady, other carcass types not established. Demand light, movement slow on moderate supplies.

2 loads of steer carcasses and 2 loads of heifer carcasses traded to packer-processors.

Sales reported on 31 loads of steer and heifer carcasses.

Steer Carcasses:
(4 Loads Reported)
FOB Omaha Basis

Choice 3

600-900 lbs. 4 lds. range 88.00-90.00, latest estb. mkt. 88.00-90.00.

600-700 lbs. latest estb. mkt. 88.00 A.

Choice 2

600-700 lbs. latest estb. mkt. 89.00 A.

Choice 4

600-900 lbs. latest estb. mkt. 80.00 A.

Good 1-3

600-700 lbs. latest estb. mkt. 83.00 A.

Holstein Type-
Choice 1-3

600-900 lbs. latest estb. mkt. 83.50 A.

Good 1-3

600-900 lbs. latest estb. mkt. 78.50 A.

Heifer Carcasses
(16 Loads Reported)
FOB Omaha Basis

Choice 3

550-800 lbs. 6 lds. range 86.00-88.00, latest estb. mkt. 86.00-88.00.

500-550 lbs. 5 lds. range 82.00-83.00, latest estb. mkt. 83.00.

400-500 lbs. 4 lds. range 81.00-82.00, latest estb. mkt. 82.00.

Choice 2

600-700 lbs. latest estb. mkt. 88.00 A.

Choice 4

500-600 lbs. latest estb. mkt. 80.00 A.

Good 1-3

550-700 lbs. latest estb. mkt. 79.00-81.00 A.

600-700 lbs. latest estb. mkt. 81.50 A.

400-550 lbs. 1 ld. range 70.00, latest estb. mkt. 70.00.

Steer Carcasses
FOB Amarillo Basis

Choice 4 600-900 lbs. 6 lds. range 78.00-79.00, latest estb. mkt. 78.00.

Heifer Carcasses
FOB Amarillo

Choice 4 500-800 lb. 5 lds. range 78.00-79.00, latest estb. mkt. 78.00.

Steer and Heifer Primal Cuts
(4 loads reported)

Heifer Hinds

119-167 lbs. range 98.00, latest estb. mkt. 98.00.

Front Quarters

131-183 lbs. latest estb. mkt. 78.00-79.00 A.

Cow and Bull Carcasses
(9 Loads Reported)

Midwest: Cutters carcasses steady to 1.00 higher.

Sales in the Midwest Production Area

Util., Bng. 1-3 400/Up# 66.50-67.50 A.

500/Up# 1 ld. 67.50.

Cutter Bng 1-2 350/Up# 3 lds. 71.75.

400/Up# 4 lds 71.50.

Bull 1-2 500/Up# 78.00 A.

600-Up# 1 ld. 82.00.

Boneless Processing Beef
Beef Trimmings
(85 Lds. Reported)
FOB Omaha Basis

90% Chem Lean 9 lds. fresh 97.00-98.00, frozen 98.00 A.

85% Chem Lean 4 lds. fresh 91.00-92.00, frozen unq.

75% Chem Lean fresh 78.00 A.

65% Chem Lean fresh 65.00 A.

50% Chem Lean 18 lds. fresh 47.00-48.00, 15 lds. frozen 50.50-52.00.

50% Chem Lean 4 lds. fresh 49.00 boxed.

Eastern Texas/Oklahoma Production Areas--FOB Plant

90% Chem Lean 22 lds. fresh 98.00-99.00, 10 lds. frozen 100.00.

85% Chem Lean 3 lds. fresh 91.00.

75% Chem Lean frozen 79.00 D.

ABCDE after market quotes represents days since last actual market test. Quotes will be dropped after 5 days of no test.

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Hen Housed Production at 72 wks	273	269
Feed conversion	3.75	3.97
Egg size	25.6 oz/doz	26.4 oz/doz
Laying period depletion	0.5%	0.3%
Growing depletion	3.5%	3.0%
Final body weight	3.79 lbs.	4.95 lbs.

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Compare the production and feed efficiency of the Hisex White and Hisex Brown layers and you won't find any better, anywhere And that is a condition that will continue since Hisex research and development keeps improving the breed

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See for yourself Put these great birds to work for you soon You'll find their average performance produces above average results

For more information on our Hisex White or Hisex Brown layers, call (704) 528-4501 or write

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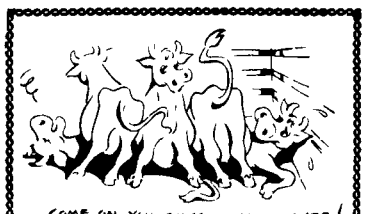

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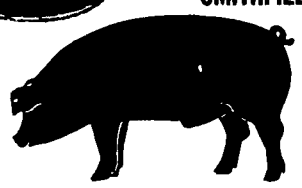

RECEIVING HOGS:
LANCASTER COUNTY FARMERS
MONDAYS McCoy's Branch Office, Bareville
WEDNESDAYS: (Next to Bawells Butcher Shop)
& FRIDAYS. on Butler Rd. 717-656-9668
TUESDAYS B & R Cattle
THURSDAYS Marietta
717-426-3258

YORK COUNTY FARMERS
MONDAYS Stewartstown
717-993-2564
TUESDAYS Thomasville
717-792-2248 or 9836
Contact for information
Ed Herrmann, 717-284-3203
or Charlie Kauffman, 215-593-5674
Future forward contracts available

Carlisle Livestock

Carlisle, Pa.
Tuesday, Dec. 30, 1986
Report Supplied by Auction

CATTLE: Steers: Medium-Good 51.25-56.25; Medium Holsteins 41.50-46.50. Heifers: Choice 52.00-54.00; Holsteins 41.00 & Down. Cows: Large Run - Steady Prices. High Yield None Offered; Good 36.25-38.25; Medium 33.50-36.00; Big Middle 31.00-36.75; Shelly 30.00 & Down. FAT Bulls: Medium-Good 45.75-47.00; Utility 37.25-40.50.

FEEDER CATTLE: Steers (600-850 lb) Medium 43.00-47.00. Heifers (all weights) Medium 44.50-48.00. Bulls (all weights) Medium-Good 37.50-47.50.

VEAL CALVES: Good Run! Steady Prices. Choice 80.00-90.00; Good 65.00-79.00; Medium 45.00-63.00; Few Light/Weak 44.00 & Down; Farm Bulls 80.00-107.00.

HOGS: Barrows & Gilts 4.00-5.00 lower than week. (US No. 1-3) 210-250 lbs. 47.00-48.85; Over 280 lb. 45.35-46.00; 2&4's (all weights) 37.00-46.50.

SOWS: 2.00-5.00 lower. Over 450 lbs. 37.25-40.75; under 450 36.75-42.50; Boars 44.00.

FEEDER PIGS: (by the hd.) (25-35 lbs. 22.00-48.00); (40-45 lbs. 48.00-49.00).

SHEEP: Lambs Steady. Good (Heavy) 53.00-64.00; Medium 52.00 & Down.

EWES: Mostly 25.00-37.00. Goats- (Lg) 44.00-50.00 (hd); Sm./Med. 25.00-40.00 (hd).

Next State Graded Pig Sale will be on Friday, Jan. 9th, 1:30 p.m.

SLAUGHTER BULLS: Yield Grade 1-2 1100-1500 lb. 42.00-47.60; 1500-2000 lb. 46.60-50.75.

Resurgence Of Five Chicken Marketing Worries Commercial Poultry Industry

Like many political refugees who have immigrated to the United States in the past 15 years, Kim Chi, a former Vietnamese refugee has adapted remarkably well.

She owns and operates the Campus Barbershop near the University of Maryland in College Park, and she has three American male barbers working for her in a four-chair shop. In old-fashioned barbershop tradition, she can discuss local politics and sports with her predominantly male clientele.

But Kim Chi misses some of the traditions and foods from her native land. One of these is the opportunity to eat fresh-dressed chicken which has been purchased at a live poultry market like those that she remembers from earlier years.

She can't stand to kill a chicken herself, but she would readily eat a fresh-dressed chicken that someone else has killed.

Multiply Kim Chi's tastes by three million Southeast Asians and 14 million Hispanics concentrated in California, Texas, Florida and the New York City area, and you'll understand why live chicken sales are making a comeback.

Even Fidel Castro, premier of Cuba, insisted on his chef bringing live chickens into a New York City hotel when he headed a delegation to the United Nations in 1965.

"It's likea throwback to the 1920's" says Edward T. Mallinson, an Extension poultry veterinarian at the University of Maryland. Dr. Mallinson is an associate professor at the College Park campus of the Virginia-Maryland Regional College of Veterinary Medicine.

Bringing back the 1920s on the poultry marketing scene may instill a certain amount of nostalgia. But it could wreak economic havoc on today's poultry production scene, where commercial broiler flocks tend to be concentrated in specialized areas like southeastern Pennsylvania, the Delmarva peninsula and the Shenandoah valley of Virginia.

The main concern, says Mallinson, is that bringing live poultry to central markets tends to multiply by fantastic proportions the likelihood that avian influenza and other highly contagious diseases will be spread from farm to farm and from one type of fowl to another.

Ducks are fairly resistant to such diseases as avian influenza; but they are notorious for spreading the bird-lethal virus to chickens and turkeys, which are much more susceptible, Mallinson explained.

Poultry producers in southeastern Pennsylvania and the Delmarva area ship most of their broilers to the New York City area. So that is the focal point for concern these days. Trade organizations like the Delmarva Poultry Industry, Inc., are maintaining constant surveillance on live poultry markets in and around New York City.

Trucks, chicken crates and people all contribute to the poultry disease problem, Mallinson noted.

Since the movement back toward the 1920s in live poultry marketing seems likely to continue for awhile, he reminds present-day industry people of a successful poultry health campaign of that era which helped to eliminate what was then called "fowl plague." The disease was similar to what we call avian influenza today, he explained.

That educational campaign of an earlier era was led by one of Mallinson's former professors, Evan L. Stubbs, known by many as the "father of poultry pathology." Now in his 90's, Dr.Stubbs is a professor emeritus at the University of Pennsylvania's school of veterinary medicine.

At a recent regional meeting on practical bio-security procedures for poultry, Mallinson emphasized that:

"To repeat the success of the 1920s campaign requires that each segment of the total poultry industry must become part of an unbroken chain of upgraded hygiene and sanitation. This chain must include producers, catching crews and egg handlers, truckers and other people who assemble live poultry for shipment to concentration points in the marketing system. It also should include traders and dealers, auction managers and poultry processors.

"Any weak link jeopardizes the strength and safety of the entire chain. We either pull together for a healthy and prosperous industry, or we lose it," Mallinson declared.

Finally, the Maryland Extension specialist offers this comment for consumers:

"While a resurgence of live poultry marketing has serious disease implications for all poultry producers, these diseases are not transmissable to humans through poultry products."

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Loss Of Capital Gain Exclusion A Blow To Taxpayer

UNIVERSITY PARK — Prior to passage of the Tax Reform Act of 1986 (and since the income tax was in its infancy in 1921), individual taxpayers were permitted to deduct from gross income a percentage of their net capital gains for a tax year. In recent years, that percentage has been 60 percent. The result of this was a maximum tax rate of 20 percent on the income from the sale of capital assets (the 50 percent maximum individual tax rate times the 40 percent of net capital gain included in adjusted gross income).

Section 1231 of the Internal Revenue Code provided such treatment of capital gains for the sale of property used in the business. That provision was particularly valuable to livestock producers, who typically have substantial income from the disposal of cull breeding animals.

The capital gain deduction is repealed by the new tax legislation (with the exception noted below), effective at the end of 1986. Capital gain, and gain from sale of property used in the business, is taxed as ordinary income with the provision that the maximum rate on long-term capital gain will not exceed the maximum individual rate. For 1987, the maximum capital gain rate is set at 28 percent even though maximum individual rates will exceed 28 percent in that year.

The character of gain as capital or ordinary is not changed by the legislation. This means that forms 4797 and schedule D will continue to be necessary. Also losses from disposal of capital assets will continue to be recognized up to a maximum of $3,000 in a given year.

An exception to the elimination of the long-term capital gain exclusion is provided by section 406 of the new law. That section retains the long-term capital gain exclusion for gain from the sale of dairy cattle in connection with the dairy buyout program. To qualify for the exception, the gain must relate to sales of dairy cattle as a result of a valid contract with the U.S. Department of Agriculture and the gain must have occurred during the period from Jan. 1, 1987 to Sept. 1, 1987.

Farm Groups Criticize Use Of Rape Oil

ST. LOUIS — Presidents of three national farm organizations representing U.S. soybean and sunflower farmers recently expressed concern over Procter and Gamble Company's use of imported rapeseed oil in reformulated Puritan cooking oil.

In a letter to P&G President J.G. Smale, the farm leaders noted the current crisis in rural America. They expressed dismay at the corporate giant's substitution of foreign rapeseed oil for domestic sunflower and soybean oil in the Puritan brand cooking oil.

"U.S. farmers are suffering from burdensome supplies, low prices and a major credit crisis," National Sunflower Association president Milton Lakness said in the letter. "There is no need for P&G to switch from U.S.-grown oils to a subsidized, foreign oil. Imports mean fewer jobs and create hardships. Furthermore, this import is more costly to consumers and claims of health benefits are controversial."

The letter challenged P&G official statements that rapeseed should be seen as an alternative crop for U.S. farmers.

"Rapeseed, like corn, soy and sunflower, is a vegetable oil," said Soybean Association president Dave Haggard. "The world is awash in vegetable oils. Producing a different type of vegetable oil is not an alternative for U.S. farmers — it is merely a substitute!"

Women Involved in Farm Economics (WIFE) President Naioma Benson also challenged P&G's claim to switch Puritan's formulation purely for health reasons. "If that's the case, we want to know why their Crisco shortening uses highly saturated, imported palm oil.

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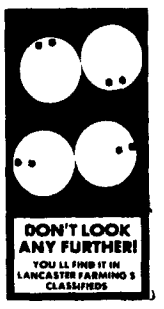

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Hunsberger, Mosholder Share Somerset DHIA Honors

BERLIN — Harry Mosholder, Rockwood, and William Hunsberger, Davidsville, shared top honors at the recent annual meeting of the Somerset County Dairy Herd Improvement Association.

Mosholder garnered the awards for highest herd average for fat and protein. On 28 Holsteins, he maintained an average of 22,318 pounds of milk, 866 pounds of fat, and 741 pounds of protein.

Hunsberger topped the county for average milk production per cow. On a three-times per day schedule, the Davidsville farmer averaged 22,813 pounds of milk, 731 pounds of fat, and 719 pounds of protein on 57 cows.

North View Farm, Berlin, ranked as the second highest herd in the county for fat production. This herd of 107 Holsteins averaged 22,447 pounds of milk, 798 pounds of fat, and 699 pounds of protein.

The second highest milk production position belonged to Farview Acres, Stoystown, with an average of 22,477 pounds of milk, 765 pounds of fat, and 692 pounds of protein on 56 cows.

Merle and Mark Mishler achieved the second best protein average with a production of 22,278 pounds of milk, 707 pounds of fat, and 723 pounds of protein on 35 cows.

A 5-year-old Holstein owned by George Stahl, Somerset, produced the highest individual cow record for milk. She completed her lactation with 33,477 pounds of milk, 1,111 pounds of fat, and 1,015 pounds of protein.

The award for the highest individual cow record for fat production went to a cow owned by Glenn Moyer, Friedens. On a three-times per day schedule, his 6 year old produced 1,236 pounds of fat in 305 days.

Mosholder owned the highest protein producing cow in the county. His 8 year old sired by Whittier-Farms Apollo Rocket produced 1,030 pounds of protein.

The award for lowest herd somatic cell count went to Spring Valley Farm, owned by Tim Lehman, Hollsopple. This Holstein herd maintained an average count of 112,000.

Elected to three-year terms as directors of the association were: Leroy Bittner, Meyersdale; Mark Mishler, Hollsopple; and Terry Ream, Markleton.

A brief reorganizational meeting of the directors was held following the annual meeting. Elected were: Braden Winters, Friedens, president; Harry Mosholder, vice president; and Leroy Bittner, secretary-treasurer.

Milk Quota Meeting Set

ALLENTOWN — New Jersey and Pennsylvania Extension Services will cooperate to conduct a meeting to provide information on milk supply management programs. Time and place: 10:30 a.m., Wednesday, Jan. 21, American Legion Hall, Rt. 94, Knowlton Township, between Hainesburg and Blairstown, N.J.

Registration fee: $10 per person. Registration deadline: Tuesday, Jan. 13. Phone 820-3085 for more information.

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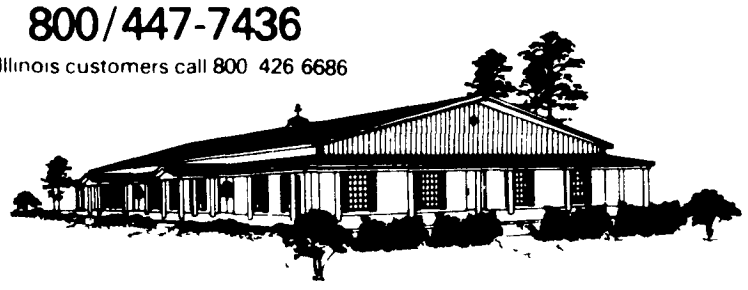

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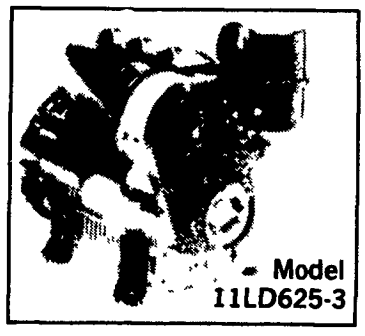

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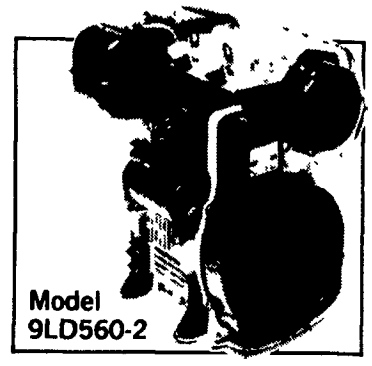

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Dairy Board Tabs New Senior Vice President

ARLINGTON, Va. — C. A. "Tony" Ernstrom, Ph.D., a veteran with over 36 years research experience, has been named senior vice president of product research and development for the National Dairy Promotion and Research Board. Ernstrom began his position with the Board Jan. 1, 1987.

In making the announcement, NDPRB, Chief Executive Officer Joe Westwater said, "We are very pleased that Tony is joining the staff. His years of experience in academia, as well as his expertise on the commercial side of the business are tremendous assets to expanding the Board's product research and development programs. Tony has a unique talent for transferring technology developed at academic institutions to industry applications. This talent will be invaluable to the development of 'Dairy Food Research Centers,' nationwide."

Ernstrom earned his doctorate in Dairy and Food Industries from the University of Wisconsin; and his M.S. and B.S. degrees in Dairy Manufacturing from Utah State.

He began his stint at Utah State in 1965 as a professor of dairy science. When the Department of Nutrition and Food Sciences in the Colleges of Agriculture and Family Life was formed in 1971, he was selected as department head where he served until 1985.

Ernstrom has been active in a variety of dairy industry organizations. He has served on the board of directors of the American Dairy Science Association. He has been a member of the Science Advisory Board of the United Dairy Industry Association/Dairy Research, Inc.

He presently serves as editor of the Journal of Dairy Science and served as associate editor for 10 years. Ernstrom has been the author or co-author of 85 professional publications and abstracts related to dairy products.

During his distinguished career, he has received numerous honors including the Pfizer Award for Cheese Research; the Distinguished Service Award of the American Jersey Cattle Club; the Cruess Teaching Award from the Institute of Food Technologists and the Kraft Teaching Award of the American Dairy Science Association.

Ernstrom will allocate 50 percent of his time to the National Dairy Board and 50 percent to the Department of Nutrition and Food Sciences at Utah State University in a research capacity. He will remain located in Logan, Utah.

MMI Honors Quality Milk Producers

STRONGSVILLE, Ohio — Six dairy producing families received Milk Marketing Inc.'s highest milk quality distinction as "Premier Quality Producers." The awards, presented recently during the dairy cooperative's annual delegate meeting, recognized the six for producing exceptionally high quality milk that exceeds state health criteria.

MMI's premier honorees included: Dorothy and John Guggenbiller, St. Henry; George and Doug Schafer, Urbana; Lola Belle and Byron Penrod and Marilyn and Darrell Penrod, North Manchester, Ind.; Kathy & Alvin Vance Jr. and family, Mt. Pleasant, Pa; Judith and Paul C. Smith, Wapakoneta, and Bruce and Alan Rinehart, R. Hart Farm, Wapakoneta.

These producers, who surpassed stringent milk quality standards for the last 10 months, received a gold quality certificate, a plaque and a customized farm sign.

"We are especially proud of the six gold or 'premier' producers who attained and consistently maintained exceptionally high milk quality standards, through MMI's Milk Quality Pricing Program. We know that MMI's quality standards are very high, and that maintaining them is no easy achievement," says MMI President Herman M. Brubaker.

In 1986, 296 MMI dairy producers were awarded gold, bronze, silver and honorary quality certificates for exceeding milk quality criteria for an established period of time.

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Stringent Management Keys Success

Virginians Take Cell Counts, Mastitis Control Seriously

BY JULIE GOCHENOUR
Virginia Correspondent

PENN LAIRD, Va. — Large or small, commercial or registered, Virginia dairyman take somatic cell counts and mastitis control in their herds seriously. Even those with the lowest numbers in the state take nothing for granted, each practicing a stringent management program tailored to their operation.

No one more so than Eldon Rhodes. Rhodes owns and operates Hideaway Dairy, a 78 head commercial operation just west of Harrisonburg. On DHIA reports, 92 percent of Rhodes' Holsteins test less than 142,000 cells per cow, and with a 1.2 percent herd average, the Mennonite dairyman has the lowest cell count in the state.

"You just have to look up and be thankful; next year you never know what will happen and that's the way I look at it," he explains. "Even if I do all the same things this coming year, I might be on the bottom of the stack 12 months from now," Rhodes laughs.

While giving Providence credit where credit is due, Rhodes admits he and his family work hard at keeping their cell counts low. "Anytime you start talking about somatic cell count, everyone will say you have to pay strict attention to your equipment and make sure your pulsation is right. As far as our facilities are concerned, we were outdated 20 years ago. We have a single three-side open stalls with three univalve units," he adds.

"One thing that I think is quite important," Rhodes emphasizes, "Is finding a teat dip that covers the bacteria that you relate to, the particular bugs on your farm. It might be coliform, it might be strep, e. coli, staph — all farms are going to have that — but you need to find a tip dip that gives you a broad base," he says, speaking from experience. "About 10 years ago I wanted to get away from the iodine based dips so we changed and within 30 days went to a 400,000 count." It took him two months to reverse the problem, he recalls, and he still uses an iodine based dip today.

Rhodes also admits to being a little old fashioned in the milking parlor. "I like to let the cows drip a short while after I wash them before I even dry them. If a cows comes in real dirty, we'll wash her as clean as possible and then she might stand for a minute before I dry her. Then if it happens to take three towels to get her dry, use three towels before you put the units on."

The Mennonite and is family do all their own milking and keep a close watch for any early signs of a problem. "It's something we and the children make a conscious effort of," he explains, noting that flare ups often occur "like bananas, in bunches," due to changes in everything from rations to the weather. Close visual checks almost always turn up the problems and Rhodes likes to begin treatment at the first sign of trouble.

The history of the cow often predetermines the treatment. "Through past experience you learn one cow will respond to a drug while another one won't. We do use one product my supplier kids me about, saying I'm the only one in the area who uses it and he stocks it just from me.

"It's not antibiotic, it's a somatostaph. If a cow comes in with a swollen quarter a lot of times that will take care of it with no discard or other treatment. Costwise, if you figure out what it's going to cost to dump milk, you're much further ahead (to use it) if the cow is going to respond."

Controlling mastitis also means controlling costs, Rhodes points out. Not only does less milk have to be dumped, but less farm income goes for veterinarian services and mastitis medicine. Furthermore, he notes, the more problem a cow has with mastitis, the less productive she becomes and the more expensive to maintain.

Some cell count is beneficial, however, he notes. "In the past I have had individual months that we've gotten down to .5 or .6 and in discussing it with my veterinarian, he warned me to be careful, that you actually want enough somatic cell count there that the cows are basically building antibiodies — that if you get it too low, it's like a person without any immunity toward disease. Most often that's not the case where you need to be concerned," he laughs, "But there is that possibility, as my veterinarian pointed out."

Controlling somatic cell count benefits both the dairyman and his herd, but there's more to it than that, Rhodes believes. "It also gives you a sense of personal satisfaction to know you're producing a quality product," the farmer adds.

"We like to use a standard on the farm. If we can't drink it, we're not interested in putting it in the tank for someone else to drink. Consequently, we're very conscious of the quality of our product. The higher somatic cell count you've got, the more mastitis problem you've got, and who wants to drink that," he asks.

At Maple Lane Farm just down the road from Hideaway, Tom Kegley and his son-in-law/herdsman, Bill Link, also believe low somatic cell count reflects on the quality of job they do of dairying. Their 145 head of commercial Holsteins have a rolling herd average of approximately 20,100 pounds of milk with 690 pounds of fat and 605 pounds of protein. Ninety-three percent of their herd tests below 142,000 somatic cell count for an overall 1.7 percent average, one of the best in the state.

According to Link, achieving low somatic cell counts depends on many factors. "I think it's kind of like a puzzle with a lot of blocks stacked uplike a pyramid — starting in the parlor. You have to get the cows clean and you have to get the cows dry. Then you have to maintain your equipment on top of that. We have a contract with our dealer and they come out twice a year and go over our whole system. And Tom knows that if they're not here, I start raising can."

The herdsman believes that it's a whole lot easier to stop a problem in the early stages than after it progresses. Two years ago he put in a new pulsation and changed the vacuum, favorably affecting his cell count. He also clips his herd twice a year, making them easier to clean and dry, and will cull a cow for re-occuring mastitis.

Cows coming into the Maple Lane double-eight herringbone parlor are hosed and washed down and then dried with paper towels before an iodine dip is used "If we have 130 cows in the parlor, we may treat one cow a month," Link estimates. "We seem to have outbreaks in the late summer when the fly population is heaviest. We'll send some cultures to the state lab once in awhile," he adds.

Link usually waits to treat a cow until she shows clinical signs of mastitis and relies on DHIA reports as well as parlor observations. "We treat mostly with cephrin and that seems to work well here. Coliforms we treat differently, using a gentacin product." Like Rhodes, Link also treats every quarter of every cow he's drying off, but he switches products every 12 to 18 or 24 months to keep any immunity from building up.

"It works for us and if it ain't broke, don't fix it," Regley grins. "I don't know if I'm right, but you don't argue with success.

"As far as I'm concerned, the main benefit of low somatic cell count is milking cows you don't have to doctor all of the time," Kegley continues. "It's a whole lot nicer to go to the barn when you don't have a whole lot of cows to treat," his son-in-law agrees. The dairymen also note that they get 10-to-15 percent more milk from a cow with an unscarred udder and don't have to dump treated milk as frequently.

These results don't come easily though. "You have to do everything right," Link admits. "You have to do your job of milking cows right, sanitation right, not only in the parlor but in the barn. You've got to keep your barn clean," he says. "Our barn is scraped Christmas day, Sundays or if we have the flu — we scrape once a day and the barn is bedded every two weeks with shredded straw. It doesn't happen by accident."

That's why they emphasize mastitis control at Maple Lane, Link says. "It's just part of a sound management program that includes herd health and reproduction. They're all tied together and if you're weak in one, it takes away from the others, including income."

"It gets back to one thing," Kegley adds. "If you aren't going to take care of the details in one area, you're not going to do the proper things in the others. And the first thing you know, your management has going to hell. And that's what it comes down to — management. As far as somatic cell count and mastitis is concerned, I think mechanization, maintenance, sanitation and dedication have as much to do with it as anything. And the young people running this operation have it all together," he concludes, indicating his son, Steve, and Bill Link.

Another young dairyman successfully controlling his somatic cell count is Bernie Frye in neighboring Shenandoah County. With 89 percent of his herd testing below 142,000, Frye is among the top seven scoring herds in Virginia and also has a 1.7 percent average. Frye admits being surprised his count is among the top in Virginia. "It must be luck," he laughs, "And that I'm there for all of the milkings."

Careful preparation is one area Frye deems essential to control somatic cell count. "We're real strict on preparing the cows before we milk them; we've been predipping for several years, not in the sense that they recommend pre-dipping but we always wash the cows first and then pre-dip. Very important — anything we get wet, we get dry. If you leave wetness, it's a better environment for bacteria to grow."

Frye uses a dip with a chlcrohexadine base. The dip also includes coconut oil to improve the skin tone of the udder. "It smells good and they're ladies too," he grins. In addition to visual checks at milking, Frye also massages the udders and will use a C.M.T. paddle as well. "I use it occasionally or if I suspect a cow is beginning to develop a problem. That can confirm a case before they get real bad. "It's a way of checking in between DHIA visits."

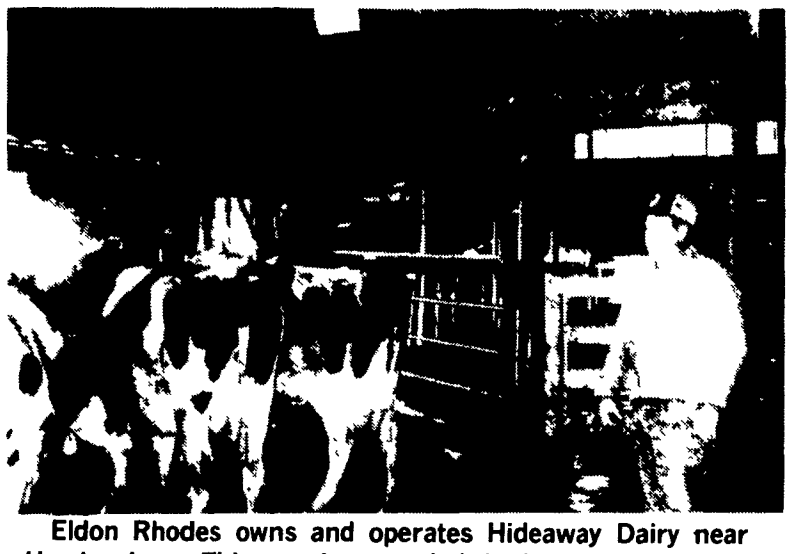
The dairyman considers mastitis to be a problem in his herd, despite his relatively low cell count. "Anybody that thinks they can eliminate mastitis altogether is crazy, I think you can keep it very well under control, but it's like the common cold, you can't eliminate it. We probablyv have more cases of clinical mastitis than a lot of herds because with a low somatic cell count, you have a low resistance and the cows either get it or they don't — there's no in-between.

"We'll usually treat anything at the first sign of sub-clinical development — that's where the paddle comes in — before they become clinically positive or you can really tell." Treatment varies depending on the severity of the care, and i. the flare-up doesn't

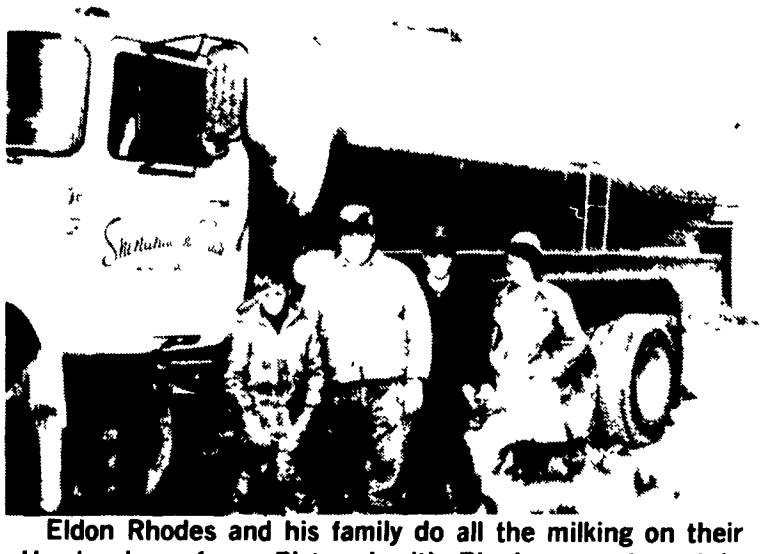
(Turn to Page A23)

Maple Lane Farm owner Tom Kegley (center) works with his son, Steve, (right) and son-in-law/herdsman Bill Link to maintain one of the lowest cell counts in Virginia.

At Maple Lane the management team believes that good help in the milking parlor is essential to maintaining low counts. Here milker Bobby Hoelzel prepares a cow for milking.



Eldon Rhodes owns and operates Hideaway Dairy near Harrisonburg. This year he recorded the lowest somatic cell countin Virginia with a count of 142,000 per cow.



Eldon Rhodes and his family do all the milking on their Harrisonburg farm. Pictured with Rhodes are, from left, Clinton, Eldon, Loren and Rosella. Missing from the photo is Darwin. The milk truck driver is Bill Myers.

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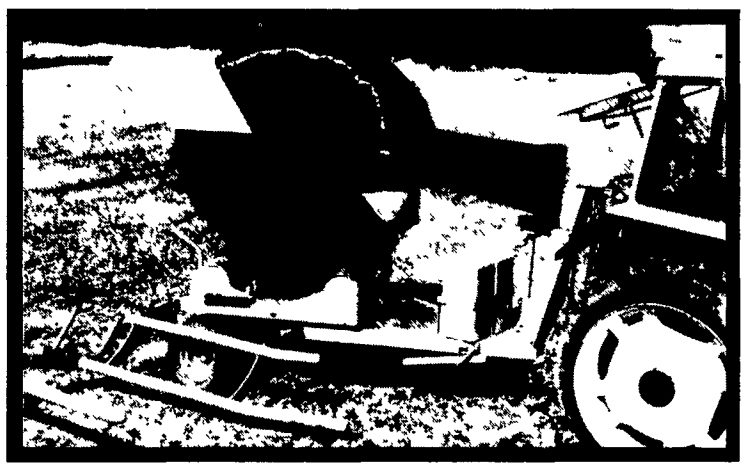

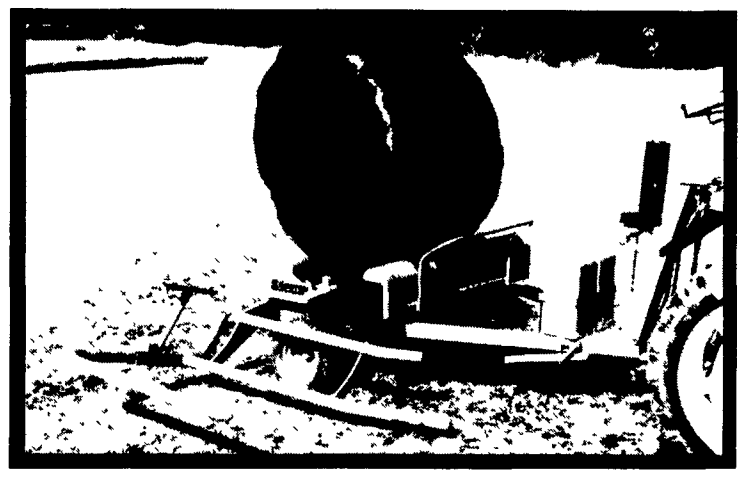

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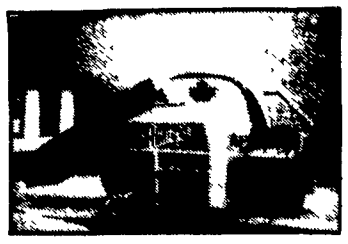

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Factors Influencing Milk Consumption In Pennsylvania

BY JACK J. KIRKLAND
Dairy Marketing Specialist
Penn State University

UNIVERSITY PARK — Because consumers recognize their nutritional value, dairy products have been, and will continue to be, an important part of the diet. However, the consumption pattern of dairy products in the United States has been changing over the past 25 years.

In 1960, approximately 17.2 percent of all food expenditures were for dairy products, but by 1984, these expenditures had dropped to 12.1 percent.

One of the largest changes in dairy product consumption has occurred with fluid milk. The U.S. per capita consumption of fluid milk products decreased from 33 gallons in 1960 to 28 gallons in 1984. Underlying this decline is a significant shift away from using whole milk to lowfat milk. In 1960, the U.S. per capita consumption of whole and lowfat milk was 29 and 0.2 gallons, respectively. But by 1984, the U.S. per capita consumption had decreased to 14 gallons for whole milk but jumped to slightly over 9 gallons for lowfat milk.

Fluid Milk Consumption In Pennsylvania

Total consumption of fluid milk products, whole, 2 percent, 1 percent and skim milk, which make up over 90 percent of the total fluid products, in Pennsylvania decreased slightly from 24 gallons per capita in 1975 to 22 gallons per capita in 1985. The national trend toward consuming more lowfat milk and less whole milk also occurred in Pennsylvania.

In 1975, whole milk consumption was 81 percent; by 1985, it had decreased to 63 percent. All three lowfat milk products increased their share of total fluid milk consumption. The consumption of 2 percent milk had the largest increase from 9 percent in 1975 to 22 percent in 1985. The increases in 1 percent and in skim milk consumption were more modest — from 5 percent in 1975 to 8 percent in 1985 and from 5 percent to 7 percent in 1985, respectively.

An understanding of the factors influencing these changes in fluid milk consumption will allow the dairy industry to improve its marketing efficiency. Maintaining efficiency requires the accurate appraisal of demand. A thorough knowledge of consumption trends and factors affecting those trends are important to: producers, processors, distributors, advertisers, retailers, and policy makers.

- Milk producers need up-to-date information concerning potential market demand to plan their future operations. Since producers fund a large portion of the industry's advertising effort, knowledge of the trends of milk consumption and those factors affecting them will allow a more efficient use of advertising.
- Processors can use the information to make informed decisions on plant location and types and quantities of fluid milk products processed in the plants and pricing strategies.
- Milk distributors can plan for a more efficient assembly of raw milk and efficient distribution of milk products.
- Advertisers can make a more efficient allocation of advertising efforts among the fluid milk products and among groups of consumers.
- Retailers need detailed demand analysis to assist them in establishing milk prices, planning daily purchases, and coordinating promotion activities with display arrangements.

The evaluation of market demand is essential for policy makers to develop an efficient pricing system.

In Pennsylvania, the Pennsylvania Milk Marketing Board sets minimum resale prices at the wholesale and retail levels. A knowledge of the effects of price on demand will enable the PMMB to determine the effects of its established prices on fluid milk consumption. It is also particularly important for the PMMB to have knowledge of the effects on demand of variables not under their control. These include the effects of income, prices of substitute products, availability of new product forms, age, sex, and changing consumer tastes and preferences.

With a knowledge of all these factors, the PMMB can take them into account when it assesses the impact of its established minimum resale prices on producers, processors, distributors, retailers and consumers.

To identify these factors Penn State researchers undertook a study on the demand for fluid milk products in Pennsylvania.

Factors Influencing Demand Of Fluid Milk Products

The Penn State study attempted to determine the extent to which several factors influenced total demand (consumption) of whole, 2 percent, 1 percent, and skim milk in Pennsylvania during the period from 1975 to 1985. Specifically, the study was designed to determine the influence of factors on the average consumption per person of each of the fluid products.

The factors used to explain the demand of these four fluid milks were:

- the price of each product
- the price of cola
- average per capita income
- percentage of population under 19
- percentage of population which is female
- season of the year

Product Prices

The prices of all four fluid milks were used to determine their influence on the per capita consumption of each fluid milk. The price of whole milk was the average market price determined from surveys of milk prices in supermarkets.

Minimum prices as set by the PMMB were used for 2 percent, 1 percent and skim milk since only a partial set of market prices were available for these milks. However, a comparison of the minimum prices and the market prices revealed that they were almost identical — the market prices being only slightly higher than the minimum prices.

Minimum and market prices moved in the same direction as well as proportionately when they changed.

The prices of the four fluid products were adjusted for the effects of inflation by dividing by the Consumer Price Index. This gave a more accurate idea of how the "real" changes in the prices of the fluid milks affected their consumption.

It was hypothesized that, as the price of a fluid product increases, the consumption of that product would decrease.

The prices of the other milk products were used to determine if there were substitution effects between the four milk products.

In other words, if the price of one of the other milk products decreased while the others remained constant, consumers might purchase more of the milk product whose price decreased and less of the other products whose price didn't change. Other studies have reported mixed findings on the effects of price. In some studies fluid prices had a significant influence on fluid milk consumption while in others it was not an important factor in consumers' decisions to purchase fluid milk.

Cola was thought to be a possible substitute beverage for milk. The price of cola was used to determine if changes in it had any influence in the consumption of the four fluid milks. It was thought that as the price of cola increased, consumers might purchase more of the fluid milks.

Prices of cola were also adjusted for inflation by using the CPI.

Average Per Capita Income

Per capita income, adjusted for the effects of inflation through use of the CPI, was used to determine the effect of consumer's purchasing power on the consumption of fluid milk. It was thought that, as consumers income increased, they would have more money to spend on food purchases and thus fluid milk consumption would increase.

The level of income might also have different effects on the type of fluid product purchased. It was thought that as the average income levels increased, less whole milk and more of the lowfat milks might be purchased.

Age of Population

The percentage of the population under 19 years of age was used to get at the effect of age on milk consumption. It has been reported in other studies that the middle-aged and senior citizens drink less than the average amount of milk. The children and young adults must then drink more milk than the other age groups. In fact, one report maintained that 50 percent of all fluid milk products are consumed by persons under 17 years of age.

Therefore, it was expected that as the percentage of the population under 19 increases fluid milk consumption should increase. But does this age group consume whole or lowfat milk products? That is one question for which we hoped to find an answer in this study.

The proportion of the population that is female was included since it is generally recognized that women consume less fluid milk than males. Furthermore, it is thought that women tend to consume more lowfat milk and less whole milk. Therefore, it is expected that as the proportion of women in the population increases,

(Turn to Page A23)

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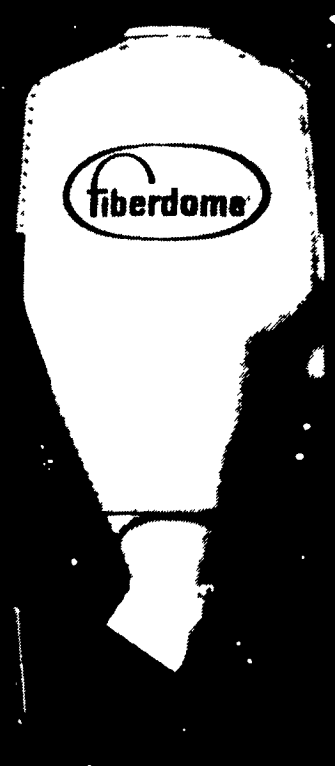

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Dairy Nutrition Schools Scheduled

The Penn State Cooperative Extension Service is offering a dairy nutrition school in three different locations in southeastern Pennsylvania. The school will be held on three successive Tuesdays, on January 20, 27 and February 3 at the Berks County Agricultural Center in Berks County; January 21, 28 and February 4 at Harvest Home Restaurant in Lancaster County, and January 22, 29 and February 5 at the York County 4-H Center in York County.

This school is designed for dairy farmers and service personnel interested in expanding and updating their knowledge in dairy nutrition.

DAY 1	
9:45	Registration, Milk, Coffee & Pastries
10:00	"It's What's Inside That Counts!" - Joe Hlubik, PSU Extension Dairy Scientist
11:30	"What Is The Bottom Line?", Berks - Clyde Myers; Lancaster - Glenn Shirk; York - Shannon Neumann
12:00	Lunch
12:45	"Does Your Ration Include What The Cow Needs?" - Joe Hlubik
1:45	"Have You Found The Bypass (Protein) and Energy Control (Carbohydrates)?" - Joe Hlubik
2:45	Questions
DAY 2	
9:45	Milk, Coffee and Pastries
10:00	"Treating the Expecting Milker Properly" - Jud Heinrichs, PSU Extension Dairy Scientist
11:00	"A 20,000 lb. Plus Producer Needs The Right Start!" - Jud Heinrichs
12:00	Lunch
12:45	"My Dry and Fresh Cow Program!" - Panel of Local Dairymen
1:15	"Forages - The Key To Your Feeding Program" - Jud Heinrichs
2:45	Questions
DAY 3	
9:45	Milk, Coffee and Pastries
10:00	"You CAN Balance Your Rations!" - Dick Adams, PSU Extension Dairy Scientist
12:00	Lunch
12:45	"Quality Control Of Your Ration Yields 20,000 lb. Producers" - Dick Adams
1:30	"Dairymen's Feeding Mistakes" - Panel of Feed Company Nutritionists"
2:15	"The Economics of Ration Formulation" - Dick Adams
2:45	Questions

Cost of the three-day program is $20 which includes registration, handouts and meals. Registration deadline is Jan. 15, 1987.

For more information contact the dairy agent in your county or Shannon Neumann, York County Extension Service, 118 Pleasant Acres Road, York, PA 17402, telephone (717) 757-9657; Glenn Shirk, Lancaster County Extension Service, 1383 Arcadia Road, Room 1, Lancaster, PA 17601, telephone (717) 394-6851; or Clyde Myers, Berks County Extension Service, Berks County Ag Center, P.O. Box 520, Leesport, PA 19533, telephone (215) 378-1327.

Vegetable Meeting Scheduled

NEW HOLLAND — Eastern Lancaster County Adult Farmer Program instructor, Don Robinson, will present an educational program on Vegetable Management at the Leola Produce Auction meeting at the Bareville Fire Hall on Tuesday, Jan. 6, 1987, beginning at 12:30 p.m. Robinson will discuss results of the tomato, pepper, and cantaloupe research plots the Adult Farmer Program conducted this past growing season. Plot results on tomatoes using trickle irrigation yielded over 55 tons of marketable tomatoes at a value of $20,000 per acre.

In addition to research results he will discuss packaging and displaying produce to enhance its marketability, how to develop a marketing plan, lengthening the growing season with tunnels, row covers, and other devices, precautions growers should use with rotations, use of manure and excessive fertility, spacing of plants on the row, and an outlook, on what produce will be needed at the auction next season.

The produce auction management will also update growers on the auction boxing and marketing policies for the coming season.

All interested growers are invited. The Bareville Fire Hall is located on route 23 between Leola and New Holland. For additional information call 656-9592 or 354-4525.

Virginians Take Cell Counts

(Continued from Page A20)

respond to an antibiotic intermammary treatment, the dairyman will use a compatible antibiotic intravenously.

"This is where I'm different," Frye admits. "I treat a lot longer than most people — usually two to three milkings after the last clinical sign of mastitis is gone. I've found I don't get quite as many flare-backs by doing it that way. On an average I loose 10 days of milk on a cow I treat with a herd average of 65 pounds a day at $12 a hundred plus medicine, it's expensive." But still worth it, he feels.

"Cows with lower cell counts give more milk and mastitis can cut your production considerably. He's also contagious, expensive and time consuming. It takes longer to milk them out and treat them."

Like the other dairymen, Frye will sanitize the milkers between healthy and infected cows and after milking each infected animal. He also treats all of his dry cows in each quarter and tries to reduce any stress by providing clean facilities and well balanced rations.

"It all ties in together and it's whatever you feel works best for you," he concludes.

Pennsylvania Milk Consumption Patterns

(Continued from Page A22)

fluid milk consumption will decrease with the greatest negative effect on whole milk.

Seasonal Influence

Season of the year was thought to have an important influence on milk consumption. Other studies have found that milk consumption tends to be higher in some times of the year than in others. Certainly, one important time is when school is in season.

Time of the year was separated into three periods: January through April, May through August, and September through December. Milk consumption in the first and third period was measured against milk consumption in May through August which are typically associated with the lowest consumption levels of the year.

Editor's Note:

To be continued. The results of Jack Kirkland's study on milk consumption will be printed in next week's issue.

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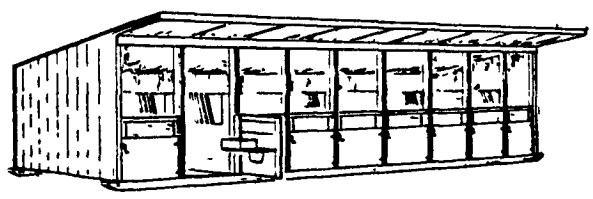

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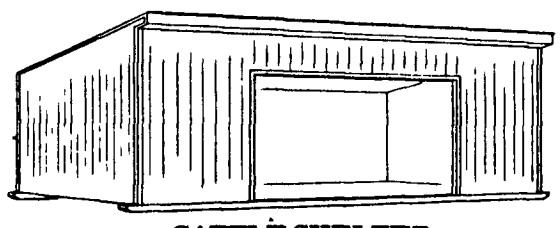
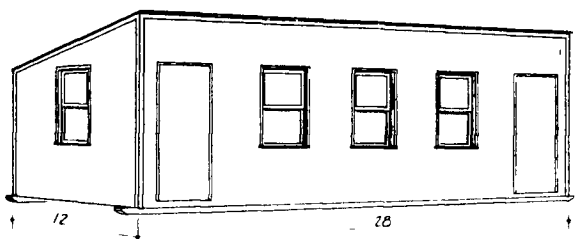
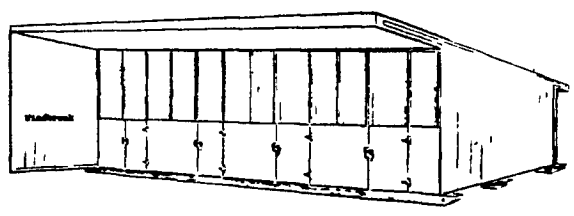


CATTLE SHELTER
Constructed of exterior rough sawn siding on treated skids. Shelter is painted and includes galvanized steel roofing and spouting.



MULTI-PURPOSE BUILDING
Constructed of exterior rough sawn siding on treated skids. Galvanized steel roofing. Floor system - 2x6 floor joists & ¾" T&G plywood.



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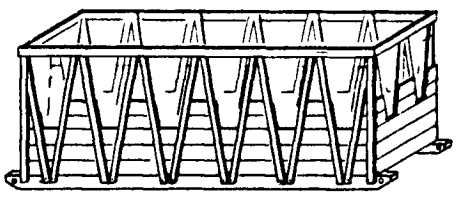
Treated skids. 1-3/8" Oak floor. Removable partitions. 4 stalls. Feed panels from rear.



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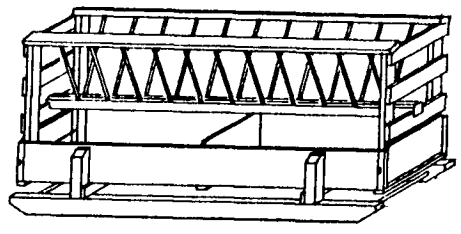

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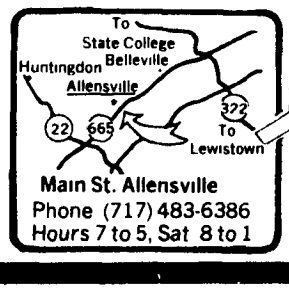

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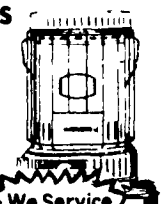

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DHIA Head

(Continued from Page A1)

is simply something added to it in terms of service to the dairymen.

DHI, which would probably be the next one for scrutiny, is usually looked upon as a two-time-a-day milking. Both weighed. Both sampled. The only difference between this and DHIR is the breed program involvement. Otherwise the testing procedure, the testing codes, the records which are returned are absolutely the same. There is some cost difference for the dairyman because he is not having to pay for the breed sponsored programs.

As we come to AM-PM with a timer, AM-PM really cuts in both directions. After the activities of the Holstein Association earlier this year, AM-PM is now an official program for DHIR as well as DHIA. Which means that as we move from DHIR to DHI to the AM-PM, we are not coming downhill. When we go to AM-PM, what we're doing is looking at and measuring a single milking a day. Projecting a record from that based upon an interval established by a timer and the statistical basis that we have in which to move. That applies equally to DHI and the DHIR. Normally it will be available at lower cost because the supervisor is required only one time on the farm as opposed to two. So this is really a price option in the program. AM-PM applies to DHI or DHIR. Moving past that to the AM-PM program without the timer, this is recognized as an official program in Pennsylvania. It is obviously of lower cost because it involves again the single measure milking. However, since it does not have the timer, it is not accepted to the breed association for DHIR records. Cattle are not indexed under the AM-PM program by USDA. A certain number of daughter evaluations do go through USDA for genetic evaluation. So there is a usage in that area. Indexes will not come off the AM-PM program. AM-PM, as such, is not recognized by all state DHI's as official programs. So it sits halfway in between. When we move past that, we begin to look at such things as owner sample direct service and so forth. These are management records. They are normally at lower cost because of the less degree of service involved. However, once the sample leaves the farm, the degree of accuracy in terms of testing and quality controls is absolutely no different than that on DHIA.

Q. So if a farmer has given you a good record, he is going to get a good record back?

That is correct. When they open the official to the management record, the only real changes are in the sampling and service procedure on the farm. And there it becomes the owner's responsibility to provide the accuracy. In terms of the caliberation of the equipment, equipment used to test those samples, processing procedure, you can't tell the difference between that and the DHIR.

Q. Let's move to fat and sol... fat and all the other ingredients in milk that we can test for. It seemed that a lot of times the fat and solids-not-fat will go down the same line and yet we still get paid on fat. Would you like to comment on that and what different parts of milk that can be tested? What is available? What should we be doing along this line?

Without exhausting the subject, once we get into it I think we're recognizing first a testing program which has usage for genetic evaluation, that is future oriented in that you breed in that direction. The second element entering here is pay base as currently exercised. That takes two different animals and requires concerns often quite different. Example, Pennsylvania with its heavy degree of urbanization, with major milk sheds in the Pittsburgh, Philadelphia and other areas has had over the years a higher blend ratio and, consequently, a higher milk price than say the upper midwest. In the state of Wisconsin, for example, about 70 percent of production goes into the hard product. In Pennsylvania it is considerably lower. What does this mean for milk handlers? It means in the state of Wisconsin, most of the people who acquire milk for processing will pay on a protein base and quality. They have every reason to do so. Protein content combined with the quality produce a higher cheese yield, which means more dollars coming out the other end for them. There is every incentive to do it. That heavy degree of incentive is not present in Pennsylvania on the part of the milk handlers because of the higher bottling. We have certain plants which will pay on a protein base. Many of them do pay on quality already. It's not whether or not it's going to happen. It's a question of when. That's the milk handling side and the impact that it has.

Now flip that over to the other side. You've got a herd of 60 head out there. You plan on doing business for the next 15 years or 20 or however many. It means that as you look at the herd that you've got in your barn, you want the next generation, if your breeding direction is appropriate, to be better than what you got in the stalls. If this is true, better in what way? One, they should be more economically efficient, which means they're going to have to match the market at that time. Brought back to home base, what this means is that if you're going to breed in the direction of protein, solids-not-fat or whatever, you have got to be tested at least five years earlier for that in order to provide a statistical base for genetic evaluation. Where the crunch comes is if one does not make those shifts in the testing program at the appropriate time, genetic evaluation is not there, and assume that the milk handling industry changes its pricing base first, you've got a lot of catch-up to do. And there is no way you can do it.

Q. Is there any indication that the other contents of milk do follow the fat content so that we wouldn't be totally lost if we made the switch later on?

Yes. There is a degree of truth in that. Normally we would expect that a cow which tests fairly high on butterfat is going to be fairly high in protein. Although protein will be lower than butterfat. This has been an assumption for years. It's one of the excuses we use for not testing for protein, which just flat out ain't true. We've found, for example, sires that had noteworthy credentials for butterfat test improvement have actually gone negative on protein.

Other factors involved, so long as one is paid for milk fat with no payment for protein, the incentive is not to move in that direction. The people who are sensitive to the future of the industry, I think, are already looking there. Another consideration, butterfat percentage in production is more highly influenced by managerial factors than is protein. Protein essentially is a cow's foot print. By management factors such as feeding, environment and so forth, you can make small changes on it, but not big ones as you can in butterfat. That will remain essentially stable and it is attached genetically to the cow. Meaning that if you want to make changes in your capacity to produce pounds of protein or percent protein, you better be thinking a long way ahead because feeding won't do it.

Q. I know you're looking at innovative programs in DHIA. This ARIS program. I'm not so sure that it has progressed to much. Can you give us a little update on it and where we might be headed?

There perhaps isn't a lot that one should be saying about the ARIS program at this point. I think the overall orientation of it might be worth looking at. That is an attempt to do the customary sample analysis, processing into the main frame. But past that point to enable the dairyman to access, retrieve, massage, manipulate, and reorganize everything that's in that main frame to come out as a report that he wants without receiving standard hard copy

(Turn to Page A35)

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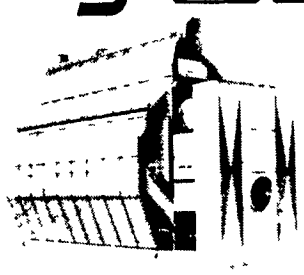

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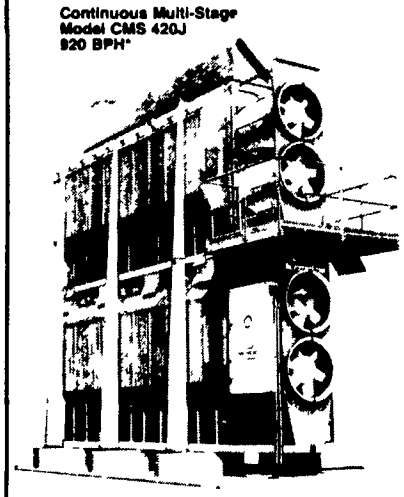

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Milk Marketing Agency Prepares To Reap Better Prices For Members

BALTIMORE, Md. — Farmers in Federal Order 4 will be ready to bargain for over-order milk prices when the expected drop in milk prices occurs in the fall of 1987.

Their bargaining power lies in the recently formed Mid-Atlantic Milk Marketing Agency. This agency is the result of three milk cooperatives banding together in preparation to obtain a fair and equitable price for their membership's milk, according to Boyd Cook, secretary of the marketing agency.

Functional since October, the Mid-Atlantic agency resembles the Regional Cooperative Marketing Agency, Robert McSparran, president, noted. Both organizations are marketing agencies with the same goal of securing better milk prices for their membership.

While RCMA operates throughout the 11 states in the Northeast portion of the country, the mid-atlantic agency operates only in Federal Order 4 for the benefit of the members in the three founding cooperatives — Inter-State, Maryland-Virginia and Dairymen Inc., Mid-Atlantic division, McSparran added.

Recognizing the need for a milk marketing organization, leaders of the three cooperatives formed the Mid-Atlantic Milk Marketing Agency this summer in case RCMA never functioned, McSparran noted. "When RCMA started this summer it didn't look like they were going to get the 95 percent signup," he said.

"It is important to us that RCMA is viable," McSparran said. RCMA works mainly with the Federal Order 2 milk in Pennsylvania. Some milk moves back and forth between Federal Order 2 and 4. For the success of both organizations bargaining power this milk needs to be protected by one of the groups.

The differences in the structure of the two Federal Orders created the need for two bargaining agencies, McSparran explained. He added the organizations are not a duplication of efforts and will be working together when negotiating for equitable milk prices becomes necessary.

Cook explained that 95 percent of the milk in Federal Order 4 is marketed through a cooperative. In Federal Order 2 only 45 percent of the milk is marketed through a cooperative.

McSparran said that the milk cooperatives in Federal Order 2 elected to join and support the in-place RCMA. Their member farmers consequently belong and receive the benefits of RCMA.

When the merger between Inter-State and Lehigh Valley Farmers is consummated in February, the new organization, Atlantic Dairy Cooperative, will belong to the Mid-Atlantic Milk Marketing Agency. Presently, Lehigh belongs to RCMA; Atlantic may decide to join RCMA and establish a dual membership, McSparran explained.

Another reason for the formation of the Mid-Atlantic Milk Marketing Agency was to coordinate the marketing efforts of the three member cooperatives, according to John Collins of Dairymen Inc. The marketing agency permits the cooperatives to serve the same dealer better without underbidding, Collins stated.

The goal of the agency is "obtaining a fair and equitable price for the product," he said. The agency will attempt to hold Class 1 prices at some equitable level, Cook explained.

Presently farmers are receiving an equitable return for their milk, he noted, since interest rates and feed prices are down. The marketing agency's board of director will decide what is an equitable price after looking at the economic conditions.

McSparran noted it is not the goal of either the RCMA or the Mid-Atlantic group to charge an exorbitant price for milk. Both organizations will work with the dealers to obtain some over-order price, he said.

Membership on the board of directors is determined by the amount of milk marketed by each cooperative. Inter-State has four farmers on the and Maryland-Virginia and Dairymen Inc. have two farmers.

The officers of the Mid-Atlantic agency includes: McSparran of Inter-State, president; Walter March of Maryland-Virginia, vice president; and Boyd Cook of Dairymen Inc., secretary-treasurer.

Dairymen Inc. Posts Successful Fiscal Year

ATLANTA, Ga. — Dairymen, Inc. recently held their 18th Annual Meeting in Atlanta. Eighteen division directors, the Co-op's outstanding young dairymen couple, Glenn and Debbie Shirley, and 200 other members attended the Atlanta meeting. The theme of this year's meeting was "Success Through Cooperation."

Dairymen completed its fiscal year ending Aug. 31, 1986 with 6,400 members — a net loss of only 287 members for the year. Had not 313 Dairymen members gone out of business last year as part of the U.S. Department of Agriculture's Dairy Termination Program, the Cooperative would have realized a net gain of 55 members.

Despite a marketing year which provided not one, but two major setbacks, referring to the termination program and the summer drought, Dairymen's production actually increased by 181 million pounds to 5.66 billion pounds.

In his Chief Executive Officer's Report at the annual meeting, Ben E. Morgan Jr., cited the Cooperative's accomplishments that were achieved as a result of "Success Through Cooperation." He said Dairymen's efforts to increase Class I differentials improved incomes for Dairymen members by $35 million, and by $70 million to all producers in Dairymen's 16-state production area.

Morgan also noted that Dairymen's efforts to avert the 55 cent per hundredweight Gramm-Rudman-Hollings budget reduction with a 12-cent assessment, saved Dairymen members another $11.3 million.

The Chief Executive Officer also credited the Sunbelt Dairy Federation with helping Dairymen collect a total of $23 million in over order premiums which equals about 41 cents per hundredweight on all Grade A Milk.

From a marketing perspective, James W. McDowell Jr., Chief Operation Officer, credited Dairymen's Flav-O-Rich and Farm Best Facilities with helping guarantee a market for Dairymen members. He noted that about one-third of the Cooperative's member milk was marketed through the 14 Flav-O-Rich facilities through Dairymen's marketing area with 90 percent of that product utilized as fluid products.

Additionally, increasing volumes are processed each year at the Farm Best Long Shelf Life Milk Plant in Savannah. A number of cheese, butter, cultured products and ice cream plants are also operated by Dairymen throughout this same area.

"Instead of just selling your milk at the prevailing market price, we're trying to develop new markets for your products," said McDowell. "We are not in business to milk cows, but to make money."

He said Dairymen also benefited this past year from several joint ventures and predicted the Cooperative would be involved in joint ventures more as we adapt to a total restructuring of the food industry.

McDowell praised Dairymen members for continuing to produce the highest quality milk. Despite the production variations brought about by drought and heat, members produced the highest quality milk in the Cooperative's history.

James E. Mueller, Dairymen's Chief Financial Officer, presented those in attendance with a detailed financial report, noting that members received milk checks, patronage dividends and Flav-O-Rich dividends totaling $97.54 for every $100 of raw milk sales. Included in that amount was a record $15.2 million of members' equity that was revolved back to members.

Dairymen's 18th annual meeting was attended by about 2,500 directors, delegates and members.

Directors attending the delegate secession from the Middle Atlantic Division included: Fred G. Butler, Samuel B. Foard, Gary R. Brauning, Joyce A. Bupp, Jesse I. Burall, Donald E. Cole, Paul A. Crowl, Crawford R. Galt, Robert L. Grove, Harry W. Hummel, Gene Kilby, Emory M. Kilgore, Harold H. Martin, Marlin E. Martin, Albert H. Mellinger, B. David Patrick, Paul R. Waybright, Myron L. Wilhide.

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S1000	1,000,000	30,000 Sq. Ft. *
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Dauphin County DHIA Monthly Report

dhia — Pennsylvania Dairy Herd Improvement Association

November, 1986

A 4 year-old cow completed the highest lactation for fat in Dauphin County for the November testing period She produced 24,474 pounds of milk and 926 pounds of fat in 305 days Robert Schaffer owned the high milk cow for the month His 5 year old produced a record of 25,102 pounds of milk and 880 pounds of fat in 305 days

Owner	Brd.	Cows	Lbs. Milk	Lbs. Fat
Restful Acres	3	110 4	20,765	740
Roy M Brubaker	3	88 4	19,476	714
Catalpa Farms	2	144 5	19,669	699
Wilmer Campbell	2	62 4	15,705	693
John Hertzler	3	80 9	19,036	687
Crissinger Dairy Farm	3	88 4	18,434	686
Alwine Farms	3	86 2	19,093	685
Robert H Beach	3	49 8	19,007	682
Elwillo Farms	8	140 1	17,476	646
Robert J Schaffer	3	63 4	18,203	644
Great View Farms	3	51 1	17,311	639
Wil-Lene Farms	3	81 5	18,074	623
J Melvin Brandt	3	70 9	17,070	621
Terlin Farms	2	63 7	12,997	612
Lauden Farms	3	196 3	16,872	611
Paul E Clugston	3	106 0	16,900	600
Stoney Lawn Farms	3	89 3	16,196	589
Lytle Farms Inc	3	105 0	16,967	585
Larry L Boyer	3	32 2	17,272	579
Mahlon L Lehman	3	58 0	15,794	569
Walter Schaffer	3	20 7	14,203	563
Sycamore Meade Farm	1	75 9	14,358	557
Stanley R Long	3	99 8	15,596	557
Arthur Brandt	3	97 0	15,230	555
Dale F Faust	3	46 1	16,969	555
Pleasant Hill Farms	3	68 3	15,596	554
Conewago Farms	3	34 6	14,935	552
Sher Mar Acres	3	78 8	15 179	550
Dauphin Way Farms	3	45 0	15 686	547
Al Ty Farms	3	49 8	14,951	530
Donald Miller Deemar	3	51 2	14 596	525
Seven Springs Dairy	3	43 2	16 466	525
Samuel K Lapp Jr	3	43 4	15 508	525
Jay K Brackbill	3	42 1	15 535	519
Bryncoed Farm Jersey				
522	6 0	14 586	5 3	768
John Hertzler				
Elma	5 3	16,876	3 8	643
Duchess	5 6	17,188	4 0	688
Sycamore Meade Farm				
Luv	7 10	14,822	4 3	642
Sallie	6 7	18,726	3 7	695
Renee	5 9	15,966	3 9	623
Joyce	2 3	15,589	4 0	621
Robert J Schaffer				
Jello	6-7	16,669	3 6	604
Robin	5 2	25,102	3 5	880
Stoney Lawn Farms				
Sandra	3-3	19,875	3 9	781
Chariot	2-6	17,681	3 6	638
Jackie	7 4	22,138	3 1	697
Lytle Farms Inc				
Beulah	6-0	15,547	3 9	614
Adela	4-10	18,949	3 9	742
Ginger	5-6	15,666	4 4	692
Lady	4-10	19,454	3 7	724
Pal	3-2	21,819	3 7	804
Crissinger Dairy Farm				
Valori	4-10	22,012	3 2	695
Anita	4 3	22,862	3 6	819
Libby	3-3	18,056	4 1	742
Flo	3-3	21,281	4 0	850
Babe	2-6	17,846	3 5	621
Pleasant Hill Farms				
Daphne	5 1	15,795	3 9	622
Mahlon L Lehman				
Judy	4-9	21,023	3 3	692
Lois	4-0	17,765	3 9	701
Pepper	4-2	21,987	3 8	831
Walter Schaffer				
89	3-7	18,380	3 6	661
J Melvin Brandt				
Sonja	6-3	18,416	3 3	607
Gail 71	5-9	18,416	3 7	678
89	4-10	18,396	3 8	690
Madge	3-10	22,113	3 3	740
30	5-4	18,252	3 7	672
Earlene	3-7	22,364	3 5	777
Dodi	2-4	18,240	3 4	612
Wilmer Campbell				
Coleen	9-1	20,298	3 6	740
Hilda	7-3	19,022	4 2	800
Opal	3-11	16,595	4 3	717
Abby	3-0	14,383	5 2	751
Ada	3-2	13,769	4 4	605
Alwine Farms				
Pamela	8-0	21,440	3 5	745
Lilly	5-11	21,776	3 3	717
Nanette	5-4	19,364	3 7	726
Design	3-2	19,976	3 8	755
Catalpa Farms				
177	6-6	19,700	3 6	719
306	4-3	21,389	3 1	673
371	3-4	19,140	3 7	711
386	3-3	14,748	4 1	603
Stanley R Long				
Jane	8-4	17,380	3 6	622
Raison	3 8	19,435	3 1	609
Restful Acres				
Maxine	7-4	18,599	3 7	679
June	4 11	21,373	3 7	797
Eva	5-5	18,915	3 4	652
Blythe	4-0	21,712	3 5	757
Kitty	1 10	19 570	3 5	684
Robert H Beach Jr				
272	2 2	21 355	3 3	707
Lauden Farms				
69	7 2	23 186	4 0	917
151	6 3	22 724	2 9	651
227	0 0	20 182	3 3	666
250	5 3	20 180	4 4	898
159	4 1	20 113	3 6	725
203	3 11	16 550	4 1	672
181	4 2	24 167	3 3	789
10	2 10	20 899	3 0	617
Great View Farms				
Jenifer	14 3	18,612	3 7	697
Minnie	7 6	19,083	4 1	778
Babe	6 11	20,907	3 6	755
Foxlady	5 0	15,498	4 4	681
Ruthie	4-8	18,679	3 6	668
Margart	4 4	24,474	3 8	926
Roy M Brubaker				
Faith45	6-6	20,657	3 2	651
Mamie	6 0	23,824	3 2	765
Daisy70	5-7	21,613	3 5	765
Pam 46	5-4	20,781	3 5	734
Lavina	4-6	22,277	3 5	775
Candice	2-3	18,095	3 5	635
Wil-Lene Farms				
61	7-10	22,355	3 4	756
83	5-0	21,348	3 0	632
92	4-2	19,833	3 3	653
93	4-2	19,472	3 7	729
69	2-11	21,314	3 1	669
17	2-5	16,642	3 9	643
13	2 2	16,028	4 1	650
20	2-3	16,158	4 2	674
26	2-3	17,120	3 8	648
Dauphin-Way Farms				
Flossie	4-2	17,206	3 7	638
Seven Springs Dairy				
Betty30	2 11	23,665	3 4	808
Samuel K Lapp Jr				
Judy 9	5-5	15,720	3 8	603
Irvin G Martin				
2	3-11	16,958	3 8	644
32	5-8	16,381	3 9	632
Jay K Brackbill				
33	8-2	20,784	3 1	647
9	3-11	22,156	3 5	780
218	2-4	20,570	3 0	615
219	2-2	20,533	3 1	642
Arthur Brandt				
Jewel	12-6	14,761	4 3	641
Pat	7-0	16,600	3 9	655
Pepper	5-8	19,792	3 4	668
106	4-6	17,759	3 9	695
Elwillo Farms*				
187	11-1	22,432	3 9	885
173-R	10-3	15,038	4 3	647
3-G	8-0	21,962	3 7	802
26-R	6-6	21,557	3 4	742
30-R	2 1	16,835	4 2	699
6	2-4	20,350	3 6	725
Larry L Boyer				
Flo	6-2	20,363	3 0	606
Dale F Faust				
Y32	2-10	15,769	4 0	624

Northumberland County DHIA
November, 1986

Name	Brd.	No. Cows	% Days In Milk	Milk Lbs	3 Fat X Lbs
Shoch Manor Farms	B3	124 7	88 3	23,871	807
Truckenmiller Farms	B3	64 4	89 4	19,859	754
Fred & Tom Strouse	B3	58 5	87 8	18,984	718
RMD Shultz Farms	B3	93 7	88 0	19,450	692
Ernest L Wolfe	B3	61 2	86 6	17,672	666
Brent Buckwalter	3	89 8	83 2	18,877	661
Ronald F Wallace	B3	55 1	89 6	18 678	659
Clayton H Swartz	B3	30 5	90 0	19,558	655

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Top Stories Of 1986

(Continued from Page A1)

FEBRUARY 22

Lindon Hepler won the PPC Pork All-American Award, and Lancaster Farming won the American Dairy Association and Dairy Council Inc. Award.

MARCH 1

Art Baxter was elected president of the Pennsylvania Holstein Association at the annual meeting in Pittsburgh. Baxter is a registered holstein breeder from Mercer county.

MARCH 8

Federal funding for the Pennsylvania Extension Service has already been cut. This has Extension personnel concerned that services may also need to be curtailed.

MARCH 15

Everyone watched as the herd buyout bids were opened and assessed. Participation proved greater than expected.

MARCH 22

Lieutenant Governor William Scranton told the Future of Agriculture Conference in Harrisburg that the best years for agriculture are ahead. The conference brought together several hundred state ag leaders to discuss the issues facing agriculture today.

MARCH 29

James Kreider of East Drumore Township was named the Lancaster county conservation district's outstanding cooperator. Christian Smucker, Caernarvon Township, and Martin Greenleaf, Jr., Colerain Township, were recognized for their no-till farming practices.

APRIL 5

More than 1100 dairymen throughout the five-state Mid-Atlantic region were reported among the 13,988 U.S. farmers participating in the whole herd buyout program according to USDA. The Mid-Atlantic Region's participation was substantially lower than the national average with Pennsylvania's 2.75 percent rate falling below all other major dairy states.

APRIL 12

A Lancaster county senior four-year-old registered holstein set national milk records for both 305 and 365 day divisions milked two times a day. Pack-Herd Jemini Brigade in the Fertrell herd at Bainbridge produced 40,527 pounds of milk, 3.9 percent fat and 1,590 pounds of fat in 305 days and 46,900 pounds of milk, 3.9 percent fat and 1,846 pounds of fat in 365 days. The official DHIA records were confirmed by the National Holstein Association in Brattleboro, Vermont.

APRIL 19

James Meyer, Lititz, shared his thoughts about participating in the whole herd buyout program. Meyer said he was convinced there was a national milk surplus but found the information available to make bidding decisions very limited.

APRIL 25

Four hundred members of the Pennsylvania Farmers Association visited the halls of the state legislature. State President Keith Eckel said the group took the opportunity to express grass roots concerns directly to the legislatures.

MAY 3

PennMac Cooperative acquired the Shamokin Packing Company according to Keith Eckel, president of PFA. The cooperative consists of 64 central Pennsylvania hog and cattle producers who incorporated to control the processing and marketing of their farm production.

MAY 10

The Chernobyl disaster pushed the Grain Futures upward. When the nuclear disaster occurred at the Soviet power plant, the immediate and the long-range effects on the world food supply were not known.

MAY 17

David Norman, Liberty, was elected president of the Pennsylvania Jersey Cattle Club at the annual meeting in Meadville. Norman with his family set high goals for their registered Jersey herd and he wants to keep communications open within the state Jersey Club.

MAY 24

Dr. Kenneth Robinson, Cornell professor, spoke to the northeast ag communitors and told the farm writers that part-time farmers were sociably acceptable. Response in Farm Forum in subsequent weeks showed that not all Lancaster Farming readers agreed with the professor.

MAY 31

Tobacco planting progressed nicely as Donald Rohrer and family planted two acres on the day Lancaster Farming editor caught up with the operation. The Rohrers plan to be about half done by the end of the week.

JUNE 7

The Pennsylvania Power and Light Company announced plans to place perpetual deed restrictions on 620 acres of company-owned farm land along the Susquehanna River. Later in the year, the land was sold back to farmers at public auction with the ag restrictions in place.

JUNE 14

Research on bovine somatotropin was reported proceeding into the second lactation of the testing program by Dr. William Chalupa, University of Pennsylvania School of Veterinary Medicine. When the new protein becomes available for on-farm use around 1989, the small dairy farmer will benefit just as much as the owner of a large dairy herd, according to the doctor.

JUNE 21

The Pennsylvania Holstein Association has become especially strong in its reputation for export sales and its youth program. An interview with Bill Nickle, executive secretary; Ken Ramey, director of membership; and Jeff Harding, director or sales, showed the increasing roll of the state breed organization in the dairy industry.

JUNE 28

Gerald Garber, Willow Street, won the national Tarbell Trophy from the American Guernsey Cattle Club. The award came at the annual meeting in Peoria, Illinois, for having the breed's highest 305 day two-time mature equivalent butterfat record. Grassland Nev Julia produced 22,107 pounds of milk and 1,264 pounds of butterfat at fives years of age for the honor.

JULY 5

The first choice of males from a flush to Arlnda Rotate by Ron-De-Ro Genie Wayne Spring brought the top price of $76,000 at the national sale held in conjunction with the National Holstein Association's annual meeting in Milwaukee. Second high price was $73,000 for Hilltop Hanover B Damara ET with five pregnancy guarantees.

JULY 12

The new president of the American Farm Bureau, Dean Klechner, told the local farm press that we will not likely see prices as high as in the '70s but farming will become profitable again. "I see this as the most opportune time for young people to get into farming," Klechner said.

JULY 19

Vo-ag teachers were encouraged to tell high school counselors and the community about the opportunities in the vo-ag program at their convention in State College. Rosemary Kolde urged the instructors to help dispell the belief that vo-ag programs prepare students only for production agriculture.

JULY 26

Metcalfs Valiant Beauty ET had a big week for owner Thomas McCauley. Beauty was named senior and grand champion of the Lancaster County Holstein Open Show after standing reserve to a stablemate at the 4-H Holstein Show a day earlier.

AUGUST 2

The 1986 Summer Drought Hay Fund was opened through the Elizabethtown Brethren in Christ Church to receive funds to help farmers in other areas to cope with the severe drought. A total of $24,635.35 was sent in for administration by the Pennsylvania Farmers Association. The benefits of the generosity are still being realized as late as the last week in December when a shipment of hay from Pennsylvania was planned for needy farmers in Maryland.

AUGUST9

RCMA had a meeting in Williamsport to start again the effort to sign independent milk producers into the over-order pricing coop. This effort continued through the year with every major milk coop and farm organization endorsing the program.

AUGUST 16

Although violent hail and thunderstorms worked havoc on many

(Turn to Page A38)

Franklin County Extension Meeting Set

CHAMBERSBURG — The 69th annual meeting of the Franklin County Agricultural Extension Association has been set for Friday, Jan. 23, at Kauffman's Community Center, according to Fred E. Rice, president of the Association. A social hour, starting at 6:15 p.m., will feature Franklin County's four Agricultural Commodity Queens. Dinner will be served at 7 p.m.

Directors to represent Quincy, St. Thomas, Warren, Southampton and Washington townships will be elected by those present. The annual report of the Cooperative Extension Service in Franklin County will be distributed to those in attendance. All Franklin County residents are invited to attend. All of legal age may participate in the election.

Tickets must be purchased no later than Jan. 16. They are available at the Franklin County Extension Service office, 191 Franklin Farms Lane, Chambersburg, and from the following directors:

Chambersburg area - Betty Mummert, Fred E. Rice, Clifford Gayman, Marie Starr, Joan Myers, Elizabeth Brown, Frances Reichard and Helen Moe.

Greencastle area - Linda Golden, Dwight M. Hawbaker and Wilma Wenger.

Concord - Betty Gamble.

Pleasant Hall - Carl D. Wenger.

Orrstown - Isaac Horst.

Willow Hill - J. Wilmer Lehman.

Lemasters - M. Eugene Hawbaker.

Waynesboro - Joseph S. Middour, Michael A. John and Frank S. Beckner.

St. Thomas - J. Robert Meyers Jr.

Shippensburg - Walter Grove, Kenneth E. Sand and Jack Diehl.

Mercersburg - Jeffrey Funk and Joyce Stuff.

Rouzerville - Fannie Harbaugh.

Newburg - Wayne L. Beidel.

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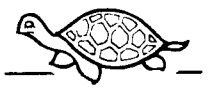

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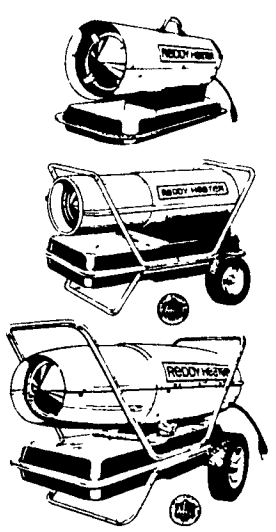

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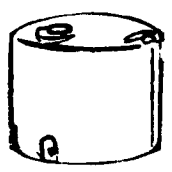

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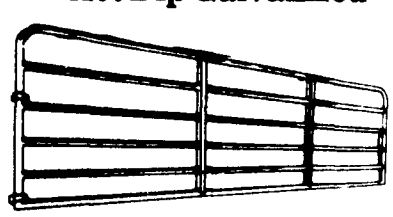

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Water — That Other Essential Nutrient

Water is one of five essential nutrients cows need, and the one that is needed in largest quantity. The other essential nutrients are energy, protein, vitamins and minerals.

Cows can be very sensitive to poor quality water, particularly young calves and productive cows. Cows will also succumb faster to the lack of water than the lack of any other nutrient.

Why are cows so sensitive to water quality? Let's explore a few possibilities.

One reason is, water is such a large portion of a cow's diet. For example, a cow consumes about half a gallon of water for every pound of milk she produces. For a productive cow, that is about 30 to 50 gallons of water per day!

On the other end of the spectrum is a young calf. It's ration consists almost entirely of water, especially if it is fed a reconstituted milk replacer.

Another reason for a cow's sensitivity to poor quality water — as well as to poor quality feeds and to poor feeding practices — is her great dependence upon a normal fermentation in the rumen.

To sustain high levels of production this delicate fermentation must perform at near peak efficiency — 24 hours a day. That requires good quality feed, good quality water, and good feeding practices. To accomplish this, we expend a lot of money and effort testing and weighing feeds; we ought to be doing the same with water.

Water Consumption

If cows don't consume enough water, feed intake declines. Consequently, production and reproduction will suffer. Poor quality water can put a lid on how much your herd is able to produce.

Reduced dry matter intake, lower production, stiff bowels, cows lapping at water, or cows' preference for some supply of water over another may be clues that cows are not consuming adequate amounts of water.

One sure way of measuring water consumption is to install a water meter on the line to the stable. It's a gadget every good dairyman should have. As you compare and evaluate daily readings, remember that water intake will be influenced by climatic conditions, moisture content of the feed, body size and production levels.

A number of other factors also affect water consumption. The supply of water at the source (ie. well or spring) is of primary concern. Perhaps the supply is adequate, but pump capacity, water pressure, pipe sizing, or drinking space may be inadequate for the size of your herd. Or, maybe the drinking facilities are not enticing or easily accessible to the herd.

Could it be that stray voltage is a deterrent to consumption?

Temperature also affects water intake. The warmer the water, or the warmer the day, the more water cows will drink. That's why some dairymen pipe warm water from their heat reclaimers and heat exchangers into the watering tank. Some well water is cooler than usual and appears to discourage intake.

However, cows benefit from cooler water on hot days; it helps to reduce body temperature and respiration rate, and encourages greater day matter intake.

Consumption is also affected by water quality. For example, acid water corrodes pipes and can impart a metallic off-flavor to water. High contents of iron, sulfates and other contaminants may also cause off-flavor problems.

The pH of the water may alter the pH in the rumen and thus impair normal fermentation. This delicate fermentation process in the rumen might also be upset by other contaminants in water such as bacteria and toxic elements.

High levels of minerals and certain other ingredients in water may tie up minerals in the ration and interfere with mineral absorption, thus affecting the animal's health and production. This is only one example of the complex interactions that can occur between ingredients in the feed and water.

Finding The Cause

If you suspect a problem with water intake or water quality, how do you track down the cause?

Before spending a lot of money on water testing or on water treatment systems, rule out some of the other factors that might be contributing to reduced consumption or to the herd's poor general performance. Some of these possibilities were discussed in the preceding paragraphs.

To check water quality, start with a few simple tests. Check the system for stray voltage. Taste the water for off-flavors. Look for buildups of stain, scale or slime.

Submit samples of water for laboratory analysis. A basic group of tests to ask for might be: pH, total bacteria, total coliform and nitrates. Other tests to consider are iron, sulfates and hardness.

Hardness does not have much effect on cows, but does affect how well your milking equipment cleaners work. These tests could be run during different seasons of the year or during different rainfall situations. Numerous other tests are also available.

Once you get a report back, how do you interpret the results? Usually, the laboratory will indicate if the water meets EPA's standard for human consumption.

What about its suitability for animal consumption? Those standards are difficult to find and disagreements exist as to what standards are acceptible.

The standards for human consumption are probably good guidelines to use for water consumed by very young animals. However, cattle with a fully developed digestive system and a functional rumen can tolerate poorer quality water, but the sensitivity of cattle to poor quality water appears to vary from cow to cow and from farm to farm.

A lot of this perceived variation may be related to differences in feed quality and feeding practices from farm to farm. As discussed earlier, the amount of water cows consume is also a factor.

Thus, high producing cows, consuming lots of water, will probably be more sensitive than lower producing cows on low producing herds.

As you compare test results with published acceptable standards, ask yourself, "upon what are the standards based?" Do the standards indicate the levels that are life threatening, or do they indicate levels that might start affecting water consumption, digestion, production, etc? And, is it based upon cows in high production or low production, and upon cows fed a "safe" ration or upon cows whose rations are "stretched to the limit?"

There's a big difference between these criteria and conditions.

If you are interested in maintaining excellent herd health, peak dry matter intakes and peak production, water quality standards acceptible to you might be considerably less than what you sometimes see published.

In my next column, I will be focusing on preventing and correcting water quality problems.

SCS To Provide Farm Bill Information At Farm Show

HARRISBURG — Farmers visiting the 1987 Pennsylvania Farm Show will be able to get the latest information on the conservation provisions of the 1985 Farm Bill. The USDA Soil Conservation Service exhibit will be a farm bill information booth.

Compliance with the conservation provisions of the farm bill will determine if farmers can receive help from other USDA programs such as commodity price supports, FmHA loans, crop insurance and disaster payments. According to Frederick Bubb, SCS, the conservation provisions are better known as sod buster, swampbuster, conservation compliance and conservation reserve program.

Sod buster regulations are in effect now, stated Bubb. This affects those plowing long term or permanent sod.

Conservation compliance will affect all farmers who farm class III, IV and VI land as well as some of the Class II land. These classes of land are termed 'highly erodible' and require a conservation plan approved by the local conservation district by January 1, 1990. Practices in the plan must be applied by the beginning of 1995 to maintain USDA program eligibility.

"We know there is a general lack of understanding by farmers of the farm bill conservation provisions, so we decided an information booth at the farm show would be helpful to farmers," said Bubb.

Farmers wanting information before the farm show contact the Soil Conservation Service, Agricultural Stabilization and Conservation Service or conservation district office.

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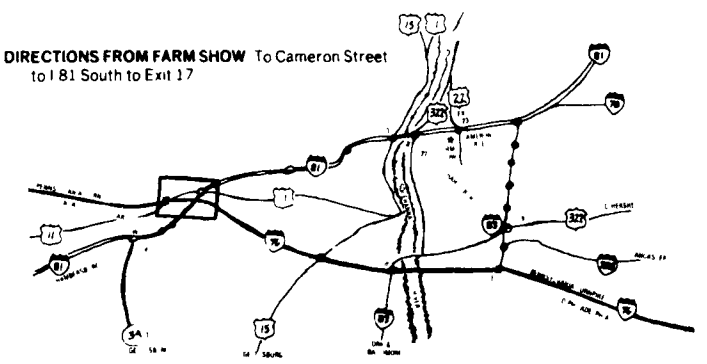

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Lancaster County DHIA Monthly Report

dhia — Pennsylvania Dairy Herd Improvement Association

November, 1986

A Holstein cow owned by Weaver Homestead Farm, R #1, New Holland, completed the highest 305 day lactation 40 produced 32,575 lbs of milk, 1,156 lbs of butterfat with a 3 5% test Second high lactation was completed by a Holstein cow owned by John S Zimmerman, R #2, East Earl 61 produced 25,461 lbs of milk, 1,121 lbs of butterfat with a 4 4% test in 305 days

First 305 Days Of Lactation With 800 Or More Lbs. Of Butterfat

Weaver Homestead Farm						
40	3	6-7	305	32,575	3 5	1156
90	3	2-6	305	26,819	3 7	992
159	3	2-2	305	22,521	4 0	893
4	3	2-2	300	22,699	3 8	852
87	3	2-1	305	24,354	3 3	805
John S Zimmerman						
61	3	4-10	305	25,461	4 4	1121
12	3	4-3	296	25,584	4 0	1014
11	3	3-6	305	28,732	3 4	974
14	3	3-3	305	23,823	3 7	888
39	3	3-2	284	24,514	3 4	836
Robert & Minnie Metzler						
Aster 47	3	4-10	305	25,680	4 3	1117
Kim	3	6-10	305	24,836	3 6	887
H Landis Weaver						
Lovely	3	9-10	305	27,614	3 8	1057
Vernon R Umble & Son						
Ann	3	6-7	305	25,721	4 1	1049
Kathy	3	5-7	305	27,438	3 5	957
Libby	3	5-2	305	22,450	3 8	851
Daryl & Sam Martin						
78	3	5-9	305	29,290	3 6	1043
90	3	4-6	305	25,832	3 6	931
Ruby	3	3 3	305	20,317	3 9	802
Robert H Kauffman						
Sheila	3	6-3	305	21,113	4 8	1022
Carmn11	3	4-7	305	24,450	4 1	993
Babe	3	8 5	305	27,682	3 2	899
Winn 80	3	3-2	305	21,481	3 8	822
Dori 15	3	4-5	305	21,625	3 8	820
Harry Zimmerman Jr						
Bee	3	7-2	305	24,547	4 1	1017
Jonas B Stoltzfus						
Jenny	3	6-2	305	30,997	3 2	1007
Paul S Horning						
Ellen	3	7-5	305	30,480	3 3	1007
Luella	3	5-2	305	20,364	4 3	869
Ruby	3	3-11	305	20,681	4 0	823
Titus B Stoner						
Lynn	3	10-0	305	24,392	4 1	995
Crystal	3	6-4	305	25,133	3 5	871
John Omar Stoltzfus						
Shiner	3	5-8	305	22,063	4 5	990
Conestoga Farm						
Ginger	3	9-1	305	31,082	3 2	986
Robert W Ulrich Jr						
Florence	4	6-9	305	18,466	5 3	985
Paula	4	4-5	305	16,168	5 1	819
Elmer M High						
41	3	4-6	305	25,154	3 9	982
54	3	6-3	305	22,515	3 7	834
60	3	7-3	305	21,099	3 9	832
A Dale Herr						
103	3	5 5	305	28,677	3 4	980
John H Howard						
Connie	3	8 7	305	25,668	3 8	968
Glenda	3	2-3	305	23,084	3 7	851
Luke S Stoltzfus						
Carol	3	5 10	305	25,605	3 8	968
Homer G Hess						
Twinkle	3	4 3	305	22,799	4 2	968
Muffy	3	4 5	305	23,290	3 8	885
Delmar H Wenger						
Sue	3	4 3	305	23,858	4 0	963
Shirley	3	4-3	305	21,702	3 7	811
Master	3	5 1	305	19,993	4 0	806
ER & RE Denlinger						
Alicia	3	5-4	305	25,774	3 7	958
Pansy	3	6 5	305	23,825	3 8	896
Bonnie	3	3-4	305	20 379	4 0	817
Edwin Sensenig						
76	3	7 7	294	27,008	3 5	946
Fertrell Farm						
55	3	5 9	305	26,905	3 5	946
123	3	8-5	305	25,430	3 4	875
80	3	4-4	305	24,827	3 4	834
85	3	4-5	305	24,085	3 4	823
100	3	3-3	305	25,402	3 2	822
Paul D Welk						
Poppy	3	6-4	305	25,970	3 6	944
Penny	3	2-6	305	18,549	4 5	841
Katie	3	5-9	259	19,680	4 1	801
Randy J Stoltzfus						
169	3	7-8	305	22,631	4 2	944
81	3	5-3	305	28,810	3 2	927
Glenn F Shenk						
Anika	3	4-6	305	22,425	4 2	943
Nellie	3	5-6	305	24,330	3 4	826
Lily	3	3-6	305	20,690	3 9	805
Harlan W Hoover						
Booty	3	4-3	305	23,421	4 0	942
19	3	5-3	305	23,130	3 6	823
Philip Horst						
Martha	3	4-2	305	27,611	3 4	940
Whitie	3	4-2	305	25,822	3 6	928
Mary	3	3-2	299	21,161	4 0	849
Kim	3	4-0	305	26,364	3 1	815
Clay Farm						
April	3	6-8	305	23,448	4 0	939
Ella	3	5 3	305	23,691	4 0	937
Jill	3	3-1	305	25,416	3 7	928
Dale & Steve Hershey						
Topsy	3	4-7	302	24,732	3 8	936
Kreider's & Nickle						
224	3	10 2	305	25,769	3 6	931
176	3	6-7	305	22,590	3 7	837
139	3	2-10	305	21,469	3 9	833
Spring Belle Farm						
Sucess	3	4-1	305	25,285	3 7	931
Nipple	3	5-8	305	22,418	4 2	931
Spring Belle Farm						
Diamond	3	6-2	305	23,172	3 9	913
Melody	3	7-5	305	23,756	3 5	834
Alelpa Farms						
814	3	6-6	305	27,674	3 4	929
LeRoy R Martin						
89	3	11-9	305	22,473	4 1	928
158	3	4-5	305	18,982	4 4	829
Weeping Willow Farm						
Flo	3	7 0	305	25,596	3 6	927
Hiram S Aungst						
Ilene	3	4-4	305	22,769	4 1	925
Running Springs Farm						
Annsi	3	5-10	305	23,541	3 9	924
Quarryville Presbyterian Home & Melvin Rohrer						
278	3	7-4	294	22,558	4 1	919
J Floyd Kreider						
7	3	3 6	305	21,636	4 2	916
Robert Gochenaur Jr						
118	3	4-1	305	26,704	3 4	914
106	3	4-7	305	24,917	3 2	809
Lapp Valley Farm						
Buttercup	3	7-1	305	26,160	3 5	914
Jearl-Wilmer Horst						
24	3	3-10	305	19,549	4 7	913
9	3	4-2	305	26,721	3 2	864
Joan 14	3	4-7	305	22,336	3 6	806
Robert & Linda Sensenig						
71	3	3 9	305	24,651	3 7	905
32	3	6 5	305	27,395	3 1	857
Delmar & Susan Weaver						
97	3	2 8	305	26,149	3 4	901
Ephraimn D Riehl Jr						
Beech	3	7 1	305	25 122	3 6	901
Lenewood Farm						
Lass	3	7 1	305	22,952	3 9	900
Lilac	3	5-4	305	25,240	3 5	885
Carol	3	5-6	305	26,632	3 3	884
Lola	3	7 4	305	26,572	3 1	812
John Omar Stoltzfus						
Queen	3	3-4	305	23,084	3 9	897
Eve	3	3 4	305	22,332	4 0	896
Lady	3	5-11	305	22,968	3 8	863
Earl N Landis						
Phoebe	3	3-4	291	22,383	4 0	897
Lucy	3	5-3	305	24,199	3 7	891
Galen C Martin						
May	3	5-3	305	23,614	3 8	895
Patsy	3	4 1	305	21,049	3 8	804
Stephen J Stoltzfus						
Proud	3	7 8	305	23,071	3 9	893
Sweety	3	5 4	305	23,468	3 5	812
Robert L Shelly						
Brownie	3	4-3	299	22,280	4 0	893
Tom Zartman						
17	3	5 1	305	28,503	3 1	891
20	3	3-2	305	22,769	3 8	854
JS Smucker & Son Farm #2						
362	3	7 0	305	26,001	3 4	890
Adam & Jerene Zimmerman						
Shine	3	3 5	305	27,135	3 3	888
Enos B King						
Glenda	3	6 0	305	23,655	3 8	888
Henry U Stoltzfus Jr						
Mandy	3	5-7	305	25,771	3 4	887
Axel & Mildred Linde						
Karin	2	4-1	305	16,691	5 3	887
John F Petersheim						
227	3	5-2	305	27,115	3 3	886
Roman L Stoltzfus						
52	3	4-6	305	25,019	3 5	886
Kenneth D Myer						
Ruth	3	5-7	305	22,369	4 0	886
Chrysan	3	5-9	305	20,724	4 2	864
Ruby	3	5-1	305	18,742	4 5	838
Walter C Pownall						
180	3	6-3	305	24,238	3 7	885
Earl R Martin						
3039	3	3-10	305	20,843	4 2	884
3012	3	5-2	305	26,080	3 1	802
Donald B Trimble						
32	3	4-0	305	25,134	3 5	882
David E DeLong						
375	3	5 2	305	23,373	3 8	882
C Nevin Hershey						
Bee	3	4 3	305	25,016	3 5	880
Shellenberger Bros						
Pandora	3	5-11	305	24,876	3 5	878
Jan 31	3	4-0	279	23,398	3 5	814
Edgefield Farms						
Kristin	3	6-11	305	23,875	3 7	878
JS Smucker Sons Farm #1						
533	3	4 1	305	21,564	4 1	878
333	3	7 3	305	22,756	3 6	812
Stephen L Hershey						
19 Bill	3	6 6	305	24,807	3 5	877
11	3	4-4	291	24,640	3 6	875
Ray P Bollinger						
Tess	3	15-2	305	20,268	4 3	876
Jonas E Stoltzfus						
Sill	3	5-4	305	23,787	3 7	875
Wilma 37	3	7-9	305	24,419	3 4	827

(Turn to Page A31)

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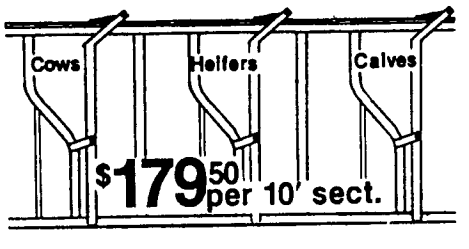

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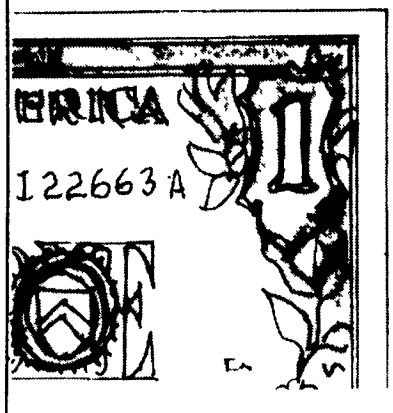

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Farm Show Market Livestock Sales Change Format

ALLENTOWN — The sale of grand champion swine, lambs and steers during the Pennsylvania Farm Show is not for penny-wise, pound-foolish, penny-pinching buyers.

Buyers have paid nearly $100,000 for 18 champion swine, lambs and steers sold during the past six Farm Shows.

The Sale of Champions at the 1987 Pennsylvania Farm Show is scheduled for Friday, January 16th, at 10 a.m. in the small arena of the Farm Show Complex.

In a change of format, the champion and reserve champion market swine, lambs and steers will be displayed and sold at auction at one time in the show ring, according to Charles Itle, assistant to the Farm Show director.

Itle said the new format will generate more enthusiasm from the buyers and more exposure for the junior exhibitors. The change to a combined sale of champions was recommended by the Junior Show and Sale Committee and approved by the Farm Show Commission at their April meeting.

Itle estimated that 100 steers, 180 hogs and 125 lambs will be sold throughout the day. The junior market swine sale will follow the champions at 11:15 a.m., with the junior market lambs at 1 p.m. and junior steers at 2 p.m.

The record price for junior market swine was set in 1981 when Hatfield Packing of Montgomery County paid $19.50 a pound or $4,680 to Michelle Bankert of Hanover, Adams County. Last year's champion owner, Todd Bennecoff of Kutztown, Lehigh County, received $10 a pound or $2,360 from Hatfield Packing for his champion.

The record was set in 1984 for the grand champion market lamb. Susan Falvey of Bedford received $60 a pound or $6,120 for her lamb from Fox's Market of Middletown, Dauphin County. Fox's Market also bought last year's champion, paying Joe Kuzemchak of Pleasant Gap, Centre County, $50 a pound or $6,850.

"J.D.", a 1255-pound steer owned by Annette Walter of Airville, York County, holds the record price for the grand champion baby beef. Arthur Gladfelter of York bought his neighbor's 4-H project for $12 a pound or $15,060. George's Foodliner Market of Northampton County paid $9.10 a pound or $11,648 to Mike Messick of Middletown, Dauphin County, for his champion last year.

Farm Show Schedule of Events are now available through County Extension Offices. In Lehigh County, phone 820-3085.

PA Grange Keeps Growing

The 1986 statistics for the National Grange shows Pennsylvania in outstanding form. Of the 10 new granges formed in the nation, five are from Pennsylvania. "That is 50 percent of the nation's new granges," said a proud Master Charles E. Wismer, Jr.

Approximately 700 new members joined the Grange through newly chartered granges. Of the 700, over 75 percent of the membership can be found in Pennsylvania.

With the 1987 figures underway, Pennsylvania can find itself with a nice start — a new Pennsylvanian group recognized quality and applied for membership. Pennsylvania will soon close the new charter.

The name of the newly organized group is the Kistler Valley Grange which is located in Kempton.

Four of the newly elected officers are: Master James Gaffney, Overseer Richard Herbal, Secretary Bernice Lenhart and Treasurer Tammy Beck.

The Grange is a rural farm organization with 42,200 members in Pennsylvania and 450,000 nationwide. Grange chapters can be found in 553 rural Pennsylvania communities in 66 counties and often serve as centers for community activities and planning.

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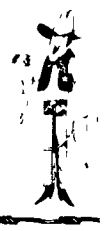

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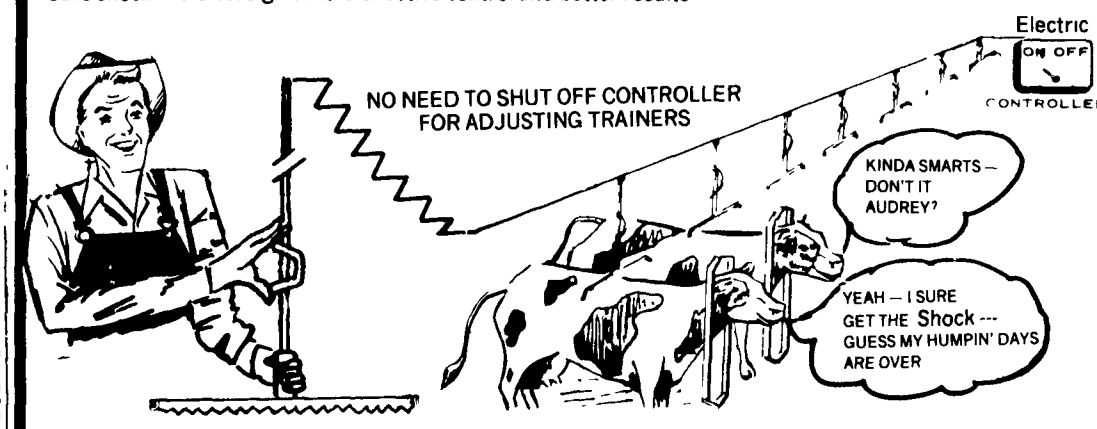
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(Continued from Page A29)

Walter M Hurst						
4	3	4-10	305	21,574	4 1	875
49	3	5-6	305	20,359	3.9	800
Ivan Bowman Jr						
Lisa	3	4-3	305	19,457	4.5	875
Neffdale Farm						
Marcy	3	3-5	305	22,854	3.8	874
Robert Kauffman Jr						
Fern	3	8-5	305	25,173	3.5	873
Irish	3	2-11	305	17,332	4 9	849
Martin & Clair Good						
Roe	3	5-9	305	20,710	4.2	871
John P Lapp						
Cherry	3	5-1	305	25,067	3 5	870
J Mowery Frey Jr						
Amy Jult	3	4-6	305	20,988	4 1	870
Melvin L Shertzer						
Ella	3	10-1	305	25,536	3 4	869
Noah Kreider & Sons						
529	3	3-1	305	24,939	3 5	869
653	3	4-5	305	20,816	4 1	863
319	3	3-11	305	17,456	4 8	839
534	3	5-4	305	18,743	4.5	838
Dale R Metz						
32	3	5-4	305	21,107	4 1	869
59	3	4-7	305	18,332	4 4	805
Warren A Schmuck						
Rhoda	1	3-11	305	19,479	4 5	869
Neil Good						
Say	3	4-4	287	20,556	4 2	867
David D Zimmerman						
Pixie	3	3-5	305	19,714	4 4	867
Joseph W Best & Sons						
104	3	9-4	305	21,649	4 0	866
Graywood Farms						
299	3	3-4	305	20,161	4 3	866
505	3	4-0	305	22,013	3.8	847
39	3	9-11	305	20,435	4.0	820
Kenneth R Weaver						
78	3	4-7	305	20,281	4.3	864
John S Nolt						
Tulip	3	5-2	305	23,429	3 7	863
Parke H Ranck						
Helen	3	5-4	305	23,270	3 7	863
Calvin D Keene						
Vermy 53	3	8-2	305	21,465	4 0	863
Arthur P Sweigart						
Faith	3	3-2	305	24,469	3 5	862
J Wade Groff						
Poppy	3	3-10	305	21,569	4 0	862
Harry H Ranck Jr						
Muffin	3	4-3	305	20,813	4 1	862
Dash	3	7-0	305	25,459	3 3	841
Edwin J Landis						
Dillie	3	3-6	305	27,038	3.2	861
Aline	3	4-11	305	25,377	3 3	833
John E Glick						
Bernice	3	5-5	305	25,191	3 4	861
Loren L Zimmerman						
Alivia	3	7-11	305	20,902	4 1	861
Ivan K Lapp						
Lady	3	7-1	305	26,092	3 3	860
Kreider Dairy Farms						
129	3	3-10	305	26,746	3 2	857
Singing Maples Farms						
66	3	9-9	305	24,047	3 6	857
John & Barb Brubaker						
Echo 35	3	3-7	305	23,847	3.6	857
Cindy 50	3	3-9	305	26,783	3.2	845
John M Harnish						
Flip	3	4-4	305	20,601	4.2	857
72	3	10-10	305	24,288	3.4	827
Marvel Acres Farm						
38	3	7-7	305	20,470	4.2	857
William H Douts						
Wanda 26	3	5-6	305	23,690	3.6	856
Kerry & Deborah Boyd						
Brownie	5	5-2	305	20,783	4 1	855
Glenn M Shelly						
40	3	3-6	305	27,576	3 1	853
Twin Oak Farms						
332	3	6-5	305	20,621	4 1	853
281	3	8-1	305	21,131	4 0	849
327	3	7-11	305	17,395	4 7	817
340	3	6-2	302	23,531	3 4	809
Thomas C Lapp						
Donna 106	3	4-5	305	21,393	4 0	852
Lolpp 14	3	3-2	305	21,376	3 8	805
LeRoy M Stoltzfus						
Angy	3	7-3	305	25,639	3 3	850
Raymond & Louise Witmer						
Sumac	2	4-6	305	17,174	4 9	850
Nathan E Stoltzfus						
Deanna	3	5-7	305	25,164	3 4	849
George M Hurst						
93	3	6-10	305	19,677	4 3	849
476	3	4-5	305	21,418	3 9	831
542	3	2-5	305	23,395	3 5	812
13	3	7-9	305	18,928	4 2	802
Melvin R Eby						
Martha	3	5-8	305	25,498	3 3	847
J Wilmer Conrad						
Muriel	3	4-6	305	22,506	3 8	846
John Z Beiler						
Miriam	3	4-6	283	24,132	3 5	845

(Turn to Page A32)

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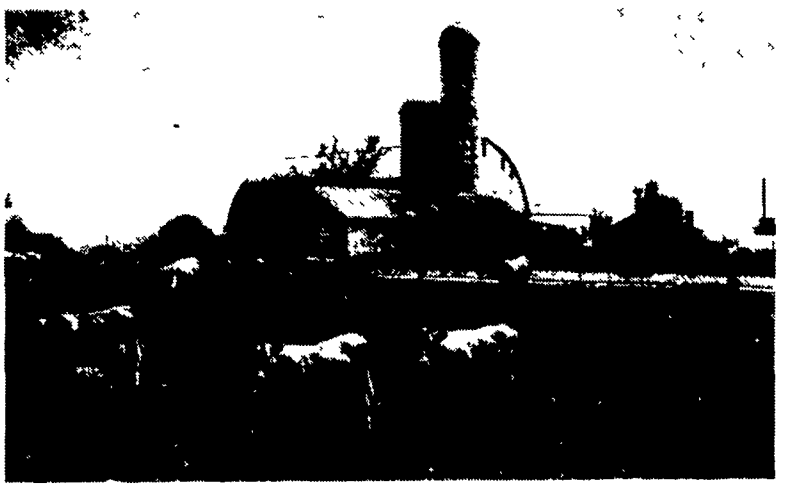

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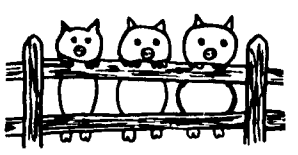

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1 Delvotest 42012

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Components

- 100 Ampules containing bacillus stearothermophilus var, cadilolactis in solid medium
- 100 Tablets containing nutrients based on glucose and indicator
- Dosing syringe for sampling milk, 100 disposable pipettes, tweezers
- Complete Instructions

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42014 8 well 120V w/Thermometer

42015 20 well 120V w/Thermometer

42013 Thermometer

2 Penzyme 42008

20 MINUTE TEST

Components

- 25 Enzyme vials in a plastic tray
- 25 Reagent tablets in strip pack
- Spring syringe with 25 disposable tips
- Complete Instructions

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Bovine Water Intake

Water is one of the essential nutrients in an animal's diet. Of all the nutrients cows need, they succumb faster to the lack of water than to the lack of any other nutrient. They need water for proper digestion and absorption of nutrients; for good health, for good production and for normal reproduction.

How much water do cows need per day — about four to five pounds for each pound of milk they produce. For a 60 pound producer, that translates into about 30 gallons of water per day.

How can you tell if cows are consuming enough water? If their bowels are hard, if feed intake is off and if production is not up to par, be suspicious. Another good way is to install a water meter on the line to the cow stable. It's a device that every dairyman should have. We monitor feed intake; we should also be monitoring water intake.

If water intake is off search for the cause. Is there a problem with voltage? Is the water too cold? Is there a problem with quality, such as pH, coliform bacteria or other bacteria, nitrates, sulfates, iron, algae, etc. A laboratory analysis can help provide some clues.

I'M NOT LION...

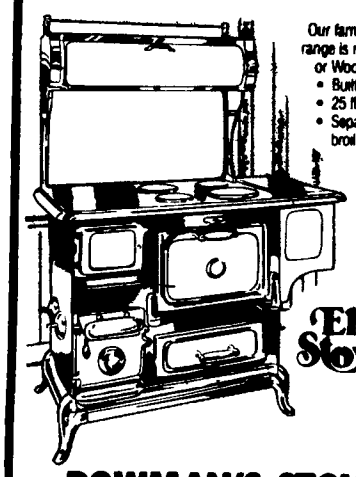
The Classified Livestock Section Has Beastly Selections!

Lancaster Co. DHIA

(Continued from Page A31)

Ivan Z Martin Lynette	3	2-10	305	20,838	4 1	844
Glenn E Burkholder April	3	3-7	305	22,383	3 8	842
Kevin S Smoker Mattie	3	8-7	305	21,888	3 8	842
Dal Car Farm 25-265	3	5-3	305	22,741	3 7	841
Samuel L Stoltzfus Viola	3	5-2	305	22,351	3 8	841
Paul M Fahnestock 4	3	4-3	305	21,590	3 9	839
92	3	3-3	305	20,878	3 9	815
Kenneth L Balmer Minnie	3	4-5	305	23,586	3 6	838
Donald B Trimble Suzette	5	7-5	305	18,006	4 7	838
Penn Har Farm Sugar	3	4-4	305	23,593	3 5	837
J Kenneth Miller 75	3	4-6	305	21,349	3 9	835
J Carl Zander Jan	3	7-3	305	20,939	4 0	834
Meadow Springs Farm Alpine	3	3-2	279	19,495	4 3	834
Wendy	3	4-4	305	18,177	4 6	830
Calvin D Beiler Trudy	3	6-5	305	23,753	3 5	833
Ammon E Reiff Vine	3	7-4	305	21,742	3 8	833
Luke L Martin Jr Bernice	3	3-0	305	22,764	3 6	830
J Omar Beiler Dixie	3	8-0	276	20,415	4 1	830
Abram M Stoltzfus Killdee	3	5-11	305	19,931	4 2	830
Natham G Stoltzfus Cocoa	3	3-8	305	19,720	4 2	830
Curtis E Akers Jenette	3	7-3	297	26,411	3 1	829
J Robert Kindig Sally	3	4-1	305	23,808	3 5	829
Warren Z Good Darla	3	4-5	305	22,343	3 7	829
C Robert Greider 125	3	5-5	305	26,274	3 2	828
277	3	4-0	305	20,678	3 9	815
David E Zimmerman 76	3	5-10	305	23,487	3 5	827
James & Nancy Zuck 48	3	7 9	305	20,974	3 9	827
Gerald Martin Amy	3	8-0	298	20,419	4 0	826
John R & Rick Groff Kitty 21	3	4-9	305	23,077	3 6	823
Jacob M Conley Carmel	3	4-3	305	21,924	3 7	820
Balmer Brothers 49	3	5 1	305	23,524	3 5	819
Dale Weiler Amy	3	6-0	305	22,550	3 6	818
Marbro Farm Kitty 16	3	6-5	299	25,261	3 2	817
David R Stoltzfus 86	3	4-6	305	23,926	3 4	817
Noah K Beiler Happy	3	4-1	305	22,775	3 6	817
Merle & Dan Stoltzfus 13	3	5-2	305	19,893	4 1	817
Henry S Lapp 53	3	5-1	305	24,254	3 4	816
Lee Nome Farm Hanna	3	7-8	305	20,991	3 9	816
Christian G Becker 236	3	6-2	305	24,593	3 3	815
Jay Richard Groff 45	3	5-5	305	24,532	3 3	814
Andrew G Miller Kitty	3	6-6	305	21,805	3 7	812
Pennstar Farms Raquel	3	5-4	305	25,839	3 2	810
Christian & Marvin Zook Dusty	3	2-3	305	20,732	3 9	810
Karl W Herr R-W Penny 45	9	4-5	305	26,118	3 1	809
Paul W Zimmerman 88	3	5-10	305	24,156	3 3	809
Aquilla S Lantz Pal	3	5-1	305	19,581	4 1	809
Robert H Rohrer & Sons 83	3	5-7	305	28,650	2 8	808
Amos B Lantz Tessie	3	5-2	305	23,866	3 4	807
MB & Gary Stoltzfus 23	3	4 5	305	17,222	4 7	806
90	3	6-5	305	16,808	4 8	802
Aaron Z Martin 41	3	4-5	295	22,553	3 6	805
Kenneth B Garber Dancer	2	2 1	305	20,754	3 9	805
Moses M Beiler Jennifer	3	3-5	305	20,603	3 9	805
Curvin W Nolt 79	3	4-0	291	16,437	4 9	805
Harold K Witmer Queen	3	10-10	302	20,599	3 9	804
Nelson Nolt Frisky	3	5-8	305	19,937	4 0	803
John O Stoltzfus Violet	3	7-6	305	21,955	3 7	802
Aaron S Glick & Sons 53	3	5-4	305	21,004	3 8	801
H Fisher & A Allgyer Pearl	3	5-5	305	19,820	4 0	801
Log House Farm Bev 2	3	6-2	305	22,446	3 6	800
David B King Vivian	3	6-9	305	21,104	3 8	800

Electric Elegance



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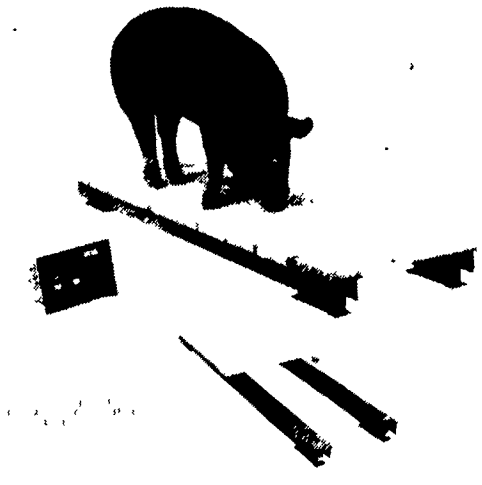

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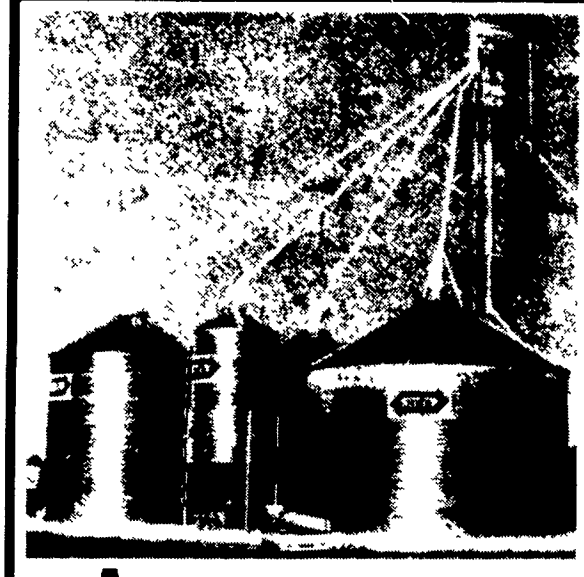

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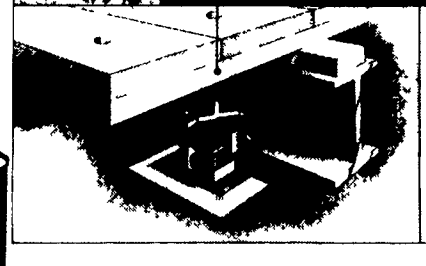

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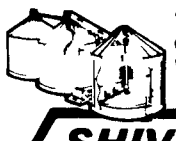

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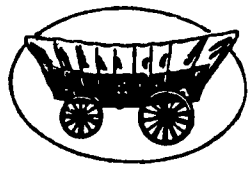

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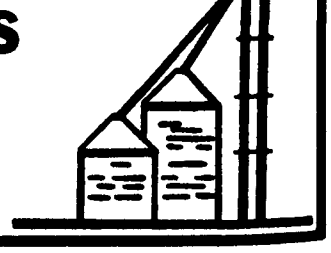

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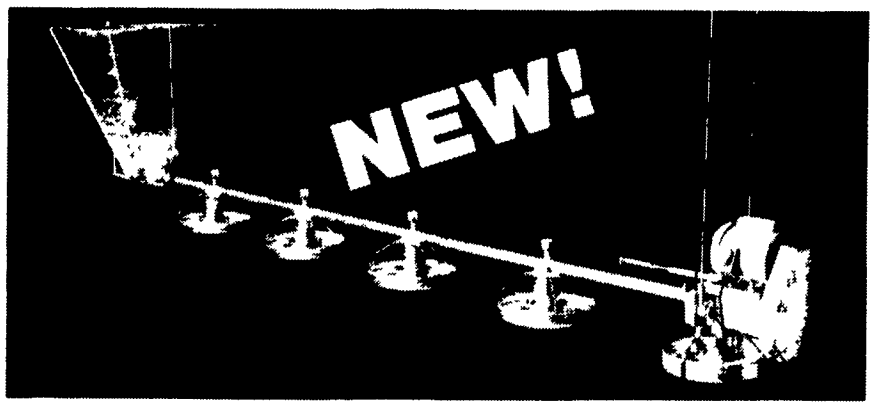
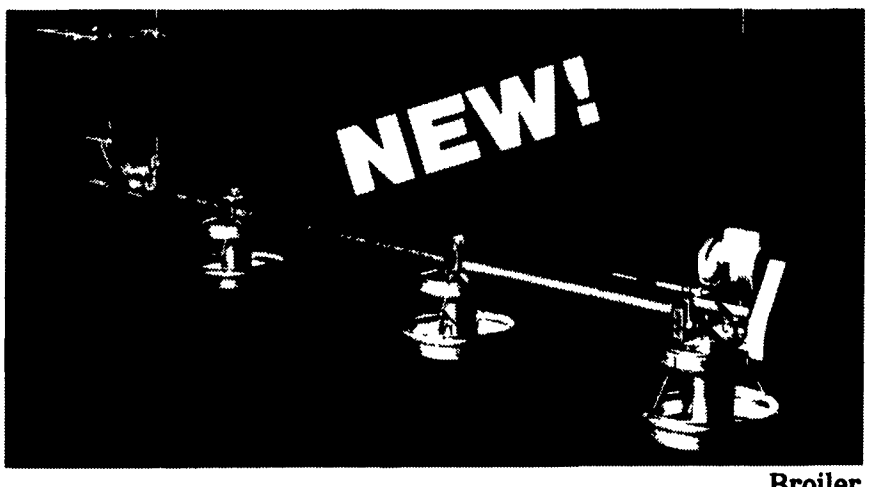


Turkey



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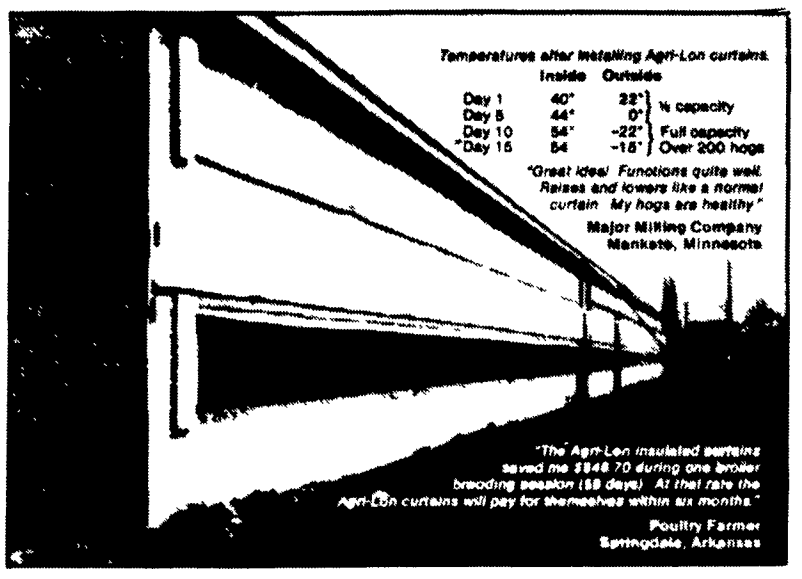
Temperatures after installing Agri-Lon curtains.
Inside Outside
Day 1 40° 22° } ¼ capacity
Day 5 44° 0°
Day 10 54° -22° } Full capacity
Day 15 64 -15° } Over 200 hogs
"Great idea! Functions quite well. Raises and lowers like a normal curtain. My hogs are healthy."
Major Milling Company
Mankato, Minnesota
"The Agri-Lon insulated curtains saved me $846.70 during one broiler brooding session (59 days). At that rate the Agri-Lon curtains will pay for themselves within six months."
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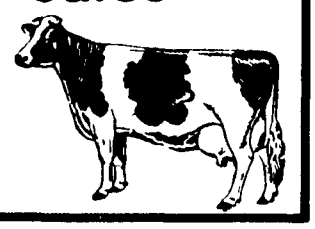

One sale report was available this week. Held on Dec. 17, the report follows.

HOLSTEIN

The GREAT NORTHERN HOLIDAY SALE held in Wisconsin averaged $1,601 on 55 head.

A bred heifer by Valiant topped the sale with a bid of $3,650. She will freshen in June to Walkway Chief Mark.

Her dam, sired by Elevation, classified EX-92 3E. She produced a best effort of 37,000 pounds of milk and 1,264 pounds of fat.

The next two dams achieved Gold Medal Dam status and produced 4 percent records.

A recently fresh 4-year-old sold for the next best price of $3,450. Sired by Ocean-View Sexation, she scored 83 points and produced a best effort of 19,160 pounds of milk with a 4.4 fat test and a 3.5 protein test. She produced 90 pounds of milk on the day of the sale.

Her dam, a Simpson Apostle daughter, classified VG-86 with a top record of 24,000 pounds of milk and 875 pounds of fat.

Joe Worden served as auctioneer and the Great Northern Cattle Company managed the sale.

NATIONAL DAIRY COW SALE INDEX

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This sale index can help dairymen place a value on the dairy cows in their own herds. Breed organization sales and private dispersal sales reported in Lancaster Farming are included in the dollar averages.

	Ayrshire	Brown Swiss	Guernsey	Jersey
Year to date:				
Nation	889	1101	1141	960
Pennsylvania	832	950	569	1019
Four previous weeks:				
Nation	1171	1436	—	—
Four previous weeks +/-year to date:	282 higher	335 higher	—	—

	Holstein	Red and White	Milking Shorthorn
Year to date:			
Nation	2090	1825	850
Pennsylvania	2006	2837	922
Four previous weeks:			
Nation	1770	—	—
Four previous weeks +/- year to date:	320 lower	—	—

Brown Swiss Cows In New York And Ohio Honored

BELOIT, Wis. — Brown Swiss cows owned by breeders in Ohio and New York were honored recently by the national office for meritorious production.

Twin Gate Pam Priscilla, a 13-year-old cow owned by Earl F. Bursiek and family, Gibsonburg, Ohio, produced a record of 22,820 pounds of milk, 1,044 pounds of fat with a 4.6 test, and 822 pounds of protein with a 3.6 test.

Larbo Performer Bertha, a 7-year-old cow owned by R-Hart Farm, Wapakoneta, Ohio, produced a record of 22,080 pounds of milk, 912 pounds of fat with a 4.1 test, and 908 pounds of protein with a 4.1 test.

Fox Trail Michelle, a 5-year-old cow owned by William K. Watkins, Belmont, Ohio, produced a record of 24,360 pounds of milk, 1,149 pounds of fat with a 4.7 test, and 922 pounds of protein with a 3.8 test.

Golden Dawn El Dairyqueen Twin, a 7-year-old cow owned by Betta Vue Farm, Sterling, Ohio, produced a record of 25,830 pounds of milk, 1,000 pounds of fat with a 3.9 test, and 901 pounds of protein with a 3.5 test.

Buckeye Bingo, a 4-year-old cow owned by Kenneth J. Eiting, Minster, Ohio, produced a record of 21,800 pounds of milk, 1,058 pounds of fat with a 4.9 test, and 810 pounds of protein with a 3.7 test.

CIE El A Ray Imp Sugar Twin, a 4-year-old cow owned by El-A-Ray Farm Inc., Cattaraugus, N.Y., produced a record of 24,850 pounds of milk, 1,136 pounds of fat with a 4.6 test, and 908 pounds of protein with a 3.7 test.

MMI Board Supports Michigan Dairy Promotion Referendum

STRONGSVILLE, Ohio — The board of directors for Milk Marketing Inc. has unanimously voted to support the proposed referendum that would change the Michigan dairy promotion check-off. The proposal, drafted by the Michigan Dairy Marketing Committee, would alter the current .8 of one percent promotion assessment to a flat 10 cent check-off. The measure if passed, would extend this change through 1991.

Currently all U.S. dairy farmers pay a 15 cent assessment for every one hundred pounds of milk they market into a national advertising and promotion fund. From that assessment, 5 cents is channeled into a national advertising and research campaign and 10 cents is allocated to promotion efforts within individual states. According to the current Michigan system, the promotion assessment is tied directly to a percentage of the pay price dairy producers receive for their milk and that percentage will soon dip below the 10 cent level.

"If the pay price continues to drop as it is projected to do, the local portion of the 15 cent assessment would be decreased correspondingly. So when the national assessment fund is divided more money would be directed to national programs and less to Michigan's local efforts", says MMI Board Director Phil Hart, Clayton, Mich.

"The purpose of this change is to lock in our 10 cents to local programs. It does not change, in any way, the dairy producer's payment of the current 15 cent assessment. But it does mean that Michigan dairy producers will be guaranteed that their 10 cent portion will be allocated to advertising and promotional programs within the state," Hart explained. In order to pass, the referendum needs to carry a majority vote of the 7,500 milk shippers holding state milking permits.

Ballots will be sent out by the Michigan Department of Agriculture to all eligible voters and should be received by Michigan milk producers by Jan. 12, 1987. Deadline to vote is Jan. 23.

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HAVING SOIL PROBLEMS?

Here's A Timely Tip...

Apply lime on frozen ground

Lime can be applied almost anytime, however winter months are ideal because the ground is firm and the freezing and thawing action helps to disseminate the lime in the soil

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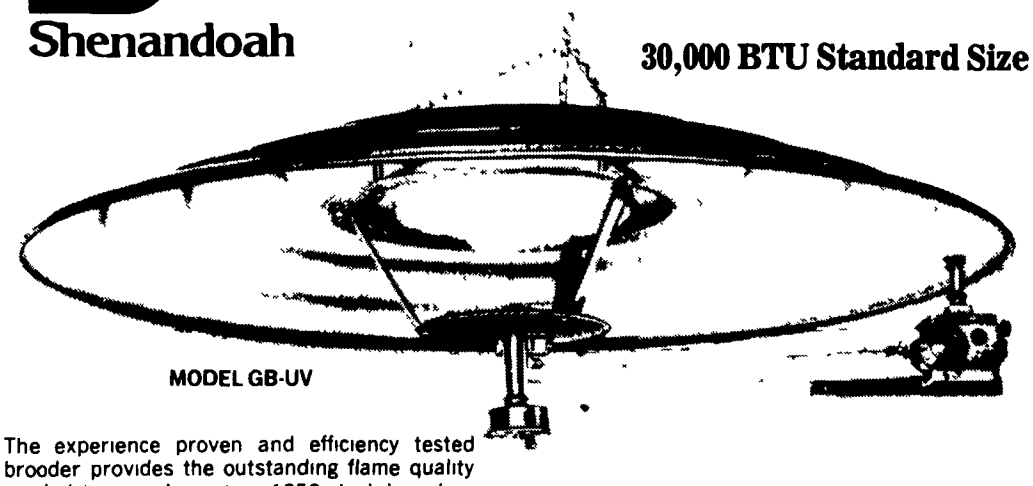

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DHIA Head

(Continued from Page A24)

through the mail. This is really a little ways off, but we're in the front edge of that. I think it will be essential certainly in a couple of years. It's already there for some people.

Q. I think you're also exploring forage tests and soil tests into the whole record information that you might be supplying the dairymen. Is that still in the works? What is the thinking there?

At this point, there is not a high degree of activity in that area. My own conception of testing, production information and managerial use thereof is that submission of forage samples at the same time you submit milk samples should bring you back results on both sides at approximately the same time at which point your feeding decisions are made for the coming months. This is really based upon two factors: one, production level; two, what's coming out of the home grown forage and how do you have to change to meet the production level. Unfortunately within the system we really are not in a position to do it right now.

Q. You did redesign the regional field districts and made some changes in personnel. I think as an economy move. Would you explain that just a bit although it is a little old by now?

When I first got to Pennsylvania, I did take a look at the operational regions. At the time there were six of them around the state. I think effective on April 14, I did change it to five. Not totally an economy move. Unless one construes economy to be coincidental with efficiency. I think when you look at the state of Pennsylvania in an attempt to administer a service program, a couple of factors have to come to mind. One density of cattle and herd numbers, which is members, that both are to be serviced in an area or potentially can be serviced in an area. Two because of the geographical terrain in the state, you have to look to see where the roads are. You don't drive north or south or east or west very easily. You curve around the mountains. Three cattle tend to pocket around typographical features and also around where the major milk sheds are.

The six-region setup that we had previously, while it did admit to fewer miles driven in some of the regions, it really didn't reflect very accurately the density of the cattle population in those regions or the difficulty in servicing them. The major milk sheds, for example, were outlined in the current regions with one down the west side of the state and one across the north. Then there is the heavy southeast and two of them moving over toward the center to come up with the five regions. That's ruffly where your milk sheds lie. So yes, economy. But probably more so than that an ideal efficiency.

Q. One of your concerns and interests is the whole educational process for dairymen that can be derived both from your office and from the records that he gets from DHIA. Would you like to give a few things you are doing or would like to do in the way of additional education and service from the association.?

Where the use of records in education is concerned, it's almost a shared function between the university Extension Service and to some extent DHIA. I like to think we have a good working relationship on that. When county agents, for example, hold record workshops out in the counties, any time we are aware of them or asked to do so, we have our people there. Correspondingly, if we set any up, normally the Extension Service will go with us. I guess I do get more and more concerned about the herds that come on test for a while and drop off. Because from the time they came on test, nobody really got with them to explain, even in very rudimentary detail, what can be done with those records. What does it mean if a cow is score four, score five or score two or three. What's the average annual milk loss multiplied by milk price, which gives you the annual dollar loss? These things are critical if one is to make use of the records that he is paying for. I think we're lacking something here.

Q. Who are the potential additional users of DHI and DHIA and how do we convince them to get involved in this kind of program?

The potential users of DHIA probably run into several general classes. I'll start with dairymen who currently are not on the test. That's about 53 percent of the dairymen in Pennsylvania. Without attempting to classify all of them, there are people who simply have no use for it I'm sure. Statistically I think that's a fact of life. I think there are probably more of them out there who look at the current program and say that it really has nothing for them. That might be telling us two things. One, in some cases they might not have looked at what we are offering. Second and perhaps even more important, in some cases we're probably not offering what they need. That's the part that I'm most interest in. That's the one we have to get around. That's where the dairymen are concerned.

Our further use is in the reference. I think we should remember that when a dairyman pays for a test, it goes into his records. But his records go much further than that. They go up through USDA for genetic evaluation. They go through the Breed Association for pedigree, the national Extension as well. But without bothering to list all of them, the point I would make is that while it's true that dairyman's records that are returned to him from the records processing center, very shortly after test, the records keep going and altimately come back to him in cow indexes that may prove some genetic evaluation. This system has to be kept in order. These are all uses of records we have for many years. Perhaps it will become of greater importance very shortly to some others currently not in that chain. Most noteworthy there are probably big cooperatives and veterinarians. Veterinarians probably head the list.

Q. So what we're really saying, if I'm hearing you right, is that roughly half of the dairy cows in Pennsylvania are in essence being used for all the records that all the dairymen really use, whether it be through the breeding organizations or wherever. So that means that there is another half that really aren't factored in and could have a great deal to do with the final outcome it would seem.

Yes. Not only final outcome but, without attempting to waiver elements of injustice, first nonofficial tests in Pennsylvania in an area numbering about 5,000 herds I think provides (from a Pennsylvania standpoint) basis for genetic evaluation, which then can be used by everyone else who is on test or not on test. I think this has to be a pricing consideration as well.

Q. Where do you see DHIA, DHI, DHIR heading or where would you like to see them head? What direction do you see us going five years from now, 10 years from now?

I think I have one general observation on direction of DHIA and records. That is perhaps in the past we've been too inclined to think about how a new report should be put together for the use of a dairyman. Then we would ride through that report and it would come back month after month, year after year. Maybe what we should be doing instead is learing to simulate the information in such a matter that it can be sent back in any form that the dairyman wants it.

Maybe this is why we have 47 percent... on test as opposed to a larger percentage. Maybe we're not furnishing what is necessary? I think that's a realistic consideration that we're probably looking for headway.

Q. To those dairymen who are not on test or associated with any formal testing organization, what would you say to those people?

I would say first of all that it's truly their choice whether or not they test. I think under the economic conditions they currently have, some kind of record keeping system is absolutely imperative so that you know where you're at. You have some assessment to where you're going with DHIA. If the current structure of the report and of the system is not at the most use to the dairymen, I think that we have the ability to change to furnish him with what he does need.

Second point I would probably make to such a person is we often hear DHIA test results compared to say independent labs and so forth. Let's think about that for a minute. When is come to soil and forage analyses, DHIA doesn't sell ..... They have no invested interest. When it comes to milk sample analysis, we don't purchase the milks. We have no invested interest. Probably when it comes to manure analysis, hopefully we don't sell that either. The point I'm making here is that DHI is in fact independent. There is no reason built into the system to do anything except try to be accurate.

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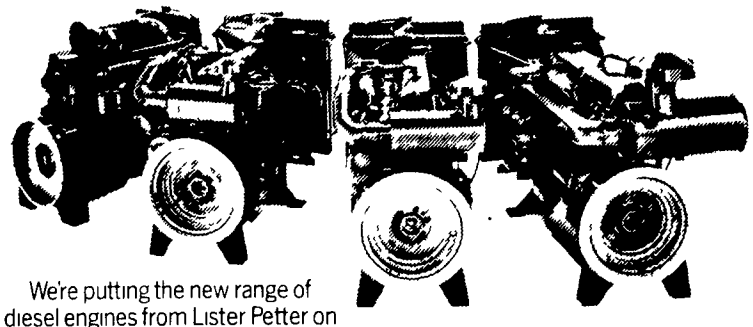

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30 YEARS AGO
THIS WEEK

— Farming in Pennsylvania seems headed for bigger business, labor saving on the farm and in the home, and improved communications. These trends are reported by Anna T. Wink, research associate in agricultural economics at the Pennsylvania University.

With the present income situation, competition is keen between spending for improved farming and for better living, Mrs. Wink points out. By 1954, 96 of each 100 farms had electricity and 83 had piped running water. Almost 70 percent had telephones. Home freezers were reported on 48 per cent of the farms and more than half had television sets.

— There will be no seasonal decline in milk price Jan. 1 to either farmers or consumers in the Philadelphia Milk Shed, the Pennsylvania Milk Control Commission announced today in an emergency order.

— Over 90 percent of all homemakers interviewed served broilers or fryers sometime during the last year, and about half of these users served them once or more a week, U.S. Department of Agriculture researchers concluded after conducting a survey of a selected sample of homemakers in the United States.

— Washington...Portable electric fences are being improved to give better service in controlled grazing of pastures and in other farm uses, the U.S. Department of Agriculture reports.

— A satisfactory down-trend in occurrence of oak wilt—a little-known fungus disease that kills practically all oak trees that it attacks—was reported today for Pennsylvania by State Secretary of Agriculture William L. Henning.

Infected oak trees and clumps of trees spotted from the air and eradicated by ground crews this past season total 398 compared with 660 in 1955.

— Harrisburg...Higher yields of corn, hay, tobacco and potatoes, coupled with improved prices for potatoes, advanced the total value of all 1956 Pennsylvania farm crops by approximately $21 million over last year, the State Department of Agriculture announced today.

— Calendar year 1956 is setting a new record for agricultural export volume, the U.S. Department of Agriculture announced.

Based on official trade statistics through October, supplemented by Department estimates for the remaining two months of the year, the value of United States farm exports for 1956 is expected to surpass $4 billion, 30 percent above 1955.

— A new national all-time, all-breed high in butterfat production has been established by Haven Hill Crescent Gewina Count, a registered Holstein owned by Mr. and Mrs. R.B. McLaughlin, Rock River Farms, Byron, ILL.

Workshop Examines Changes In Dairy Policy

STRONGSVILLE, Ohio — Changes dairy in policy, production and demand are the topics for The Ohio State University Dairy College, Jan. 5 to 6, 1987 at the Hilton Inn, North in Worthington. The dairy college is held in conjunction with the annual meeting of the Ohio Dairy Farmers Federation.

Milk Marketing Inc., the regional dairy marketing cooperative and a member of the Ohio Dairy Farmers Federation, will help lead a discussion about the changing role of Ohio's dairy organizations. MMI General Manager Gordon Riehl will discuss the marketing of milk within Ohio.

"Our Changing Dairy Industry" is the latest in a series of programs designed to instruct people in the dairy industry on various management topics, according to Bernard L. Erven, OSU dairy farm management specialist.

In two separate sessions, OSU economist Robert E. Jacobson will address the current status of the dairy industry and ways it has changed while staying basically the same throughout the past 25 years. Carl Zulauf, OSU farm policy specialist, also looks at the effect of political changes on the industry.

Other sessions include new ideas to improve production, labor management and time management. During the evening banquet Jan. 5, Extension Service Director J. Michael Sprott will outline OSU's Ohio 21 plan for improving the university's agricultural instruction, research and Extension efforts.

The Federation and the OSU Cooperative Extension Service are co-sponsoring the program. Registration information is available at county Extension offices, and through the Columbus, Cleveland, Cincinnati division offices of Milk Marketing Inc.

Farm Calendar

(Continued from Page A10)

Day, 11 a.m. to 3 p.m. Mercer County Extension Building.

Friday, January 9

Southcentral Area Income Tax meeting, 9 a.m. to 4 p.m., Chambersburg Holiday Inn on Wayne Ave., Chambersburg.

Pa. Association of Conservation District Directors meeting, Grantville Holiday Inn; continues through Jan. 10.

Sunday January 11

Pa. Farm Show, Harrisburg. Continues through Jan. 16. For a complete schedule of Farm Show activities turn to the listing elsewhere in this week's Lancaster Farming.

Monday, January 12

Ice Cream Short Course, Penn State University main campus; continues through Jan. 21.

Tuesday, January 13

Eastern Pa. Turf Conference and Trade Show, Valley Forge Convention Center.

Bradford County Tax Meeting, Extension office, 1 to 3 p.m. and 8 to 10 p.m.

Wednesday, January 14

Delaware No-Till Meeting, Hartly Fire Hall, Hartly, Del.

Saturday, January 17

Franklin County Holstein Banquet, 7:30 p.m., Savoy, Waynesboro.

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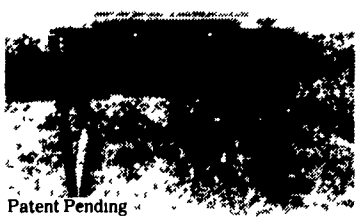

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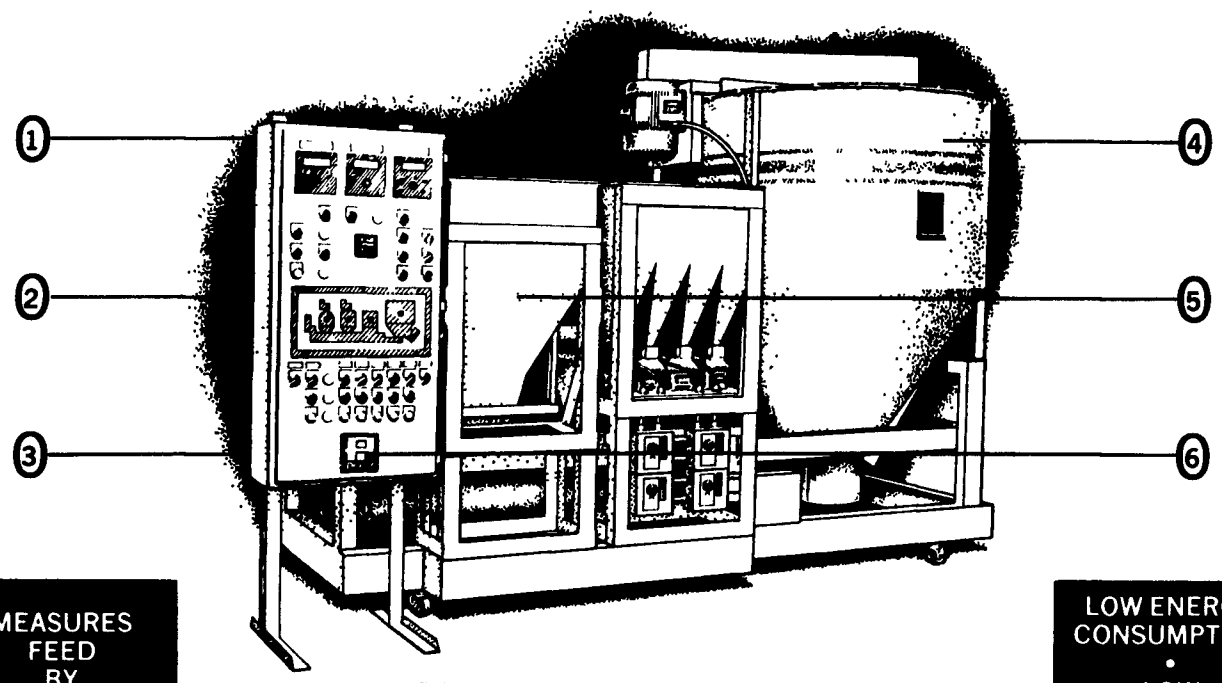

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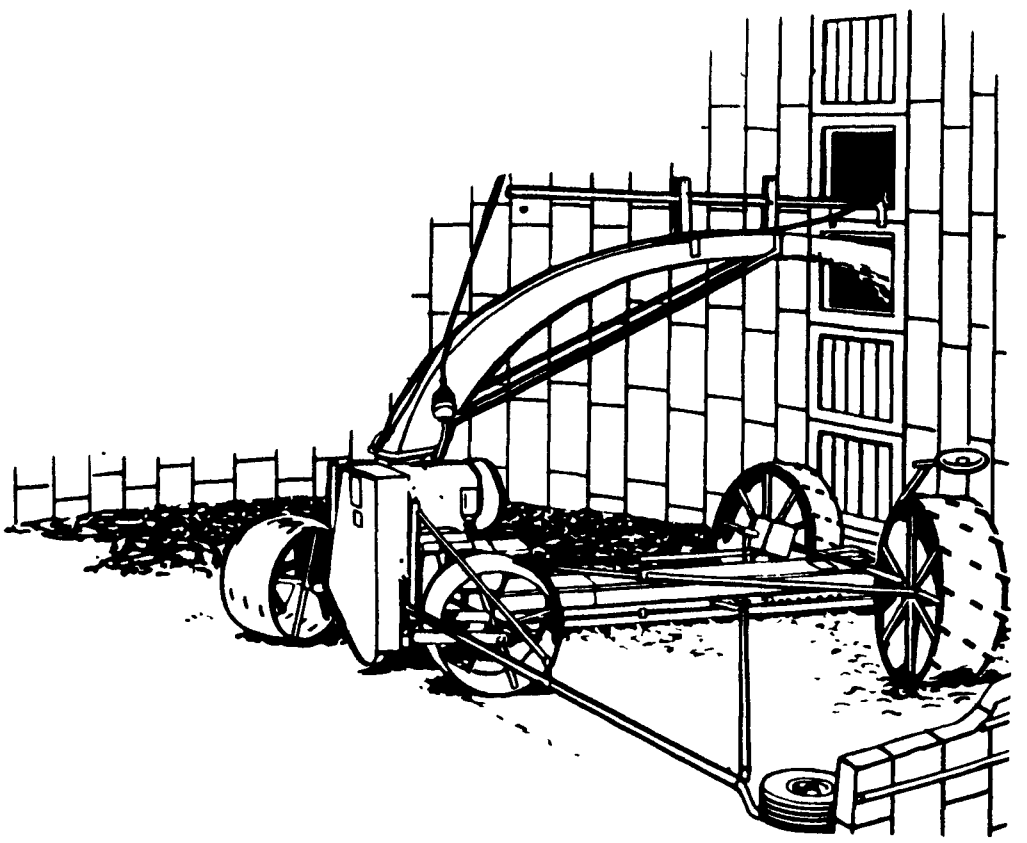

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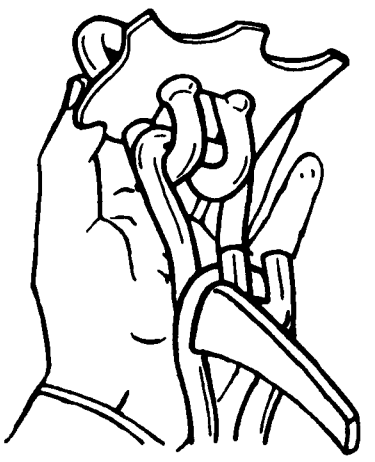

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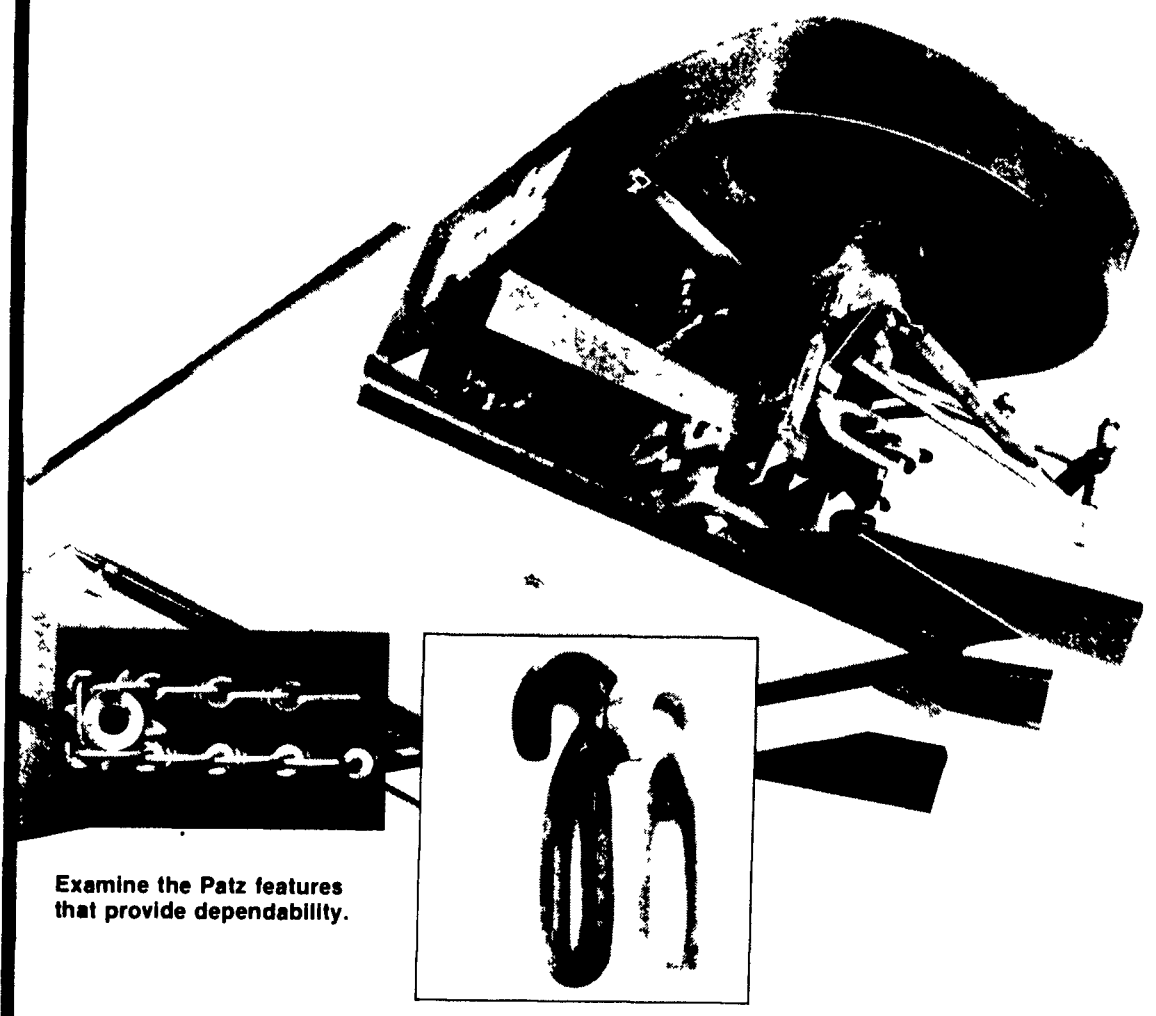

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Top Stories Of 1986

(Continued from Page A27)

acres of Lancaster county tobacco, Clarence Metzler, Manheim, reported a robust crop. Metzler has been farming tobacco for nearly 60 years.

AUGUST 23

Ag Progress Days brought 65,000 people to State College to see the latest in ag equipment and technology. The theme for this year's extravaganza was "Water Quality In Your Life".

AUGUST 30

The Pennsylvania Dairy of Distinction Program got underway in State College under the direction of Steve Spencer, dairy science department at Penn State. By the end of the year, the program had state districts and state offices in place. Local committees were also being formed.

SEPTEMBER 6

The Pennsylvania State Holstein Show in State College was won by Chery Brook LTD Balboa. The three year old had also topped the same show as a two year old last year.

SEPTEMBER 13

Beth Heald, Pennsylvania state dairy princess, and Donald Duncan, chairman of the Pennsylvania Milk Marketing Committee, presented the trophy milk can and a $1,000 scholarship check to Joe Paterno, Penn State head football coach. The milk promotion project received wide attention in the public media.

SEPTEMBER 20

Women have the skills and leadership ability to make positive change in agriculture according to the theme of the Fifth Annual Women In Agriculture Seminar. The seminar held in Harrisburg offered agri-women an opportunity to meet and discuss problems.

SEPTEMBER 27

Pamela Kendig from Lancaster county was crowned the new Pennsylvania state dairy princess. Washington/Greene county dairy princess, Jill Minor, was selected first alternate. And Bedford County Dairy Princess Heidi O'Neal was named second alternate.

OCTOBER 4

The Pennsylvania Holstein Association opened new barn facilities at Middletown in time for a thousand head export project. The new facility is expected to give state holstein breeders a bigger chunk of the export market because of the close proximity of the Harrisburg International Airport.

OCTOBER 11

Peter H. Kroll of Catasaugua was named Man Of The Year by the Pennsylvania Livestock Association. The association's annual meeting in Harrisburg featured an address by Ray Lehr who cautioned the livestock industry to prepare for major changes.

OCTOBER 18

James Harteis was named the new chairman of the Pennsylvania Dairy Promotion Board. The Edensburg dairyman succeeded Donald Duncan of Robesonia.

OCTOBER 25

Twelve hundred 4-H Extension agents met in Hershey for their 40th Annual Conference. The theme of the conference was "4-H Keystone of the Future".

NOVEMBER 1

Interstate and Lehigh milk cooperatives approved a merger that was hailed as the most significant dairy farm news in some time. The proposal was unanimously endorsed by both boards and later approved by a substantial majority of the farm members.

NOVEMBER 8

Charles E. Wismer, Jr., was reelected the Pennsylvania State Grange master at the annual meeting in Reading. The democratic

(Turn to Page A39)

RCMA Meeting Slated

NEW HOLLAND – The Eastern Lancaster County Adult Farmer Program will sponsor a meeting to inform local dairymen about the Regional Cooperative Marketing Agency and its efforts to help dairymen receive higher milk prices.

The meeting will be held Thursday, Jan. 22, at 7:30 p.m. at the Blue Ball School. Harold Ely, a former Susquehanna County dairymen, will explain the RCMA program and answer questions.

Many eastern Lancaster County dairymen ship milk to independent dairies at a minimum price fixed by Federal Orders. That dairy can turn and sell the milk to other processors for higher prices or "over-order prices" without passing along any of the profits to the dairymen.

Recent court decisions now allow dairymen to organize to demand to receive additional payment if this occurs. With a milk shortage in the northeast, this may be the case during much of the year.

If 95 percent of the dairymen in the state agree to organize under RCMA, the additional payments can be collected and returned to the dairymen. Over 90 percent of the dairymen have already agreed, mostly through the large milk marketing cooperatives.

All interested dairymen are invited. The Blue Ball School is located about a mile east of Blue Ball on Ewell Rd. between routes 23 and 322. For additional information call 354-4525.

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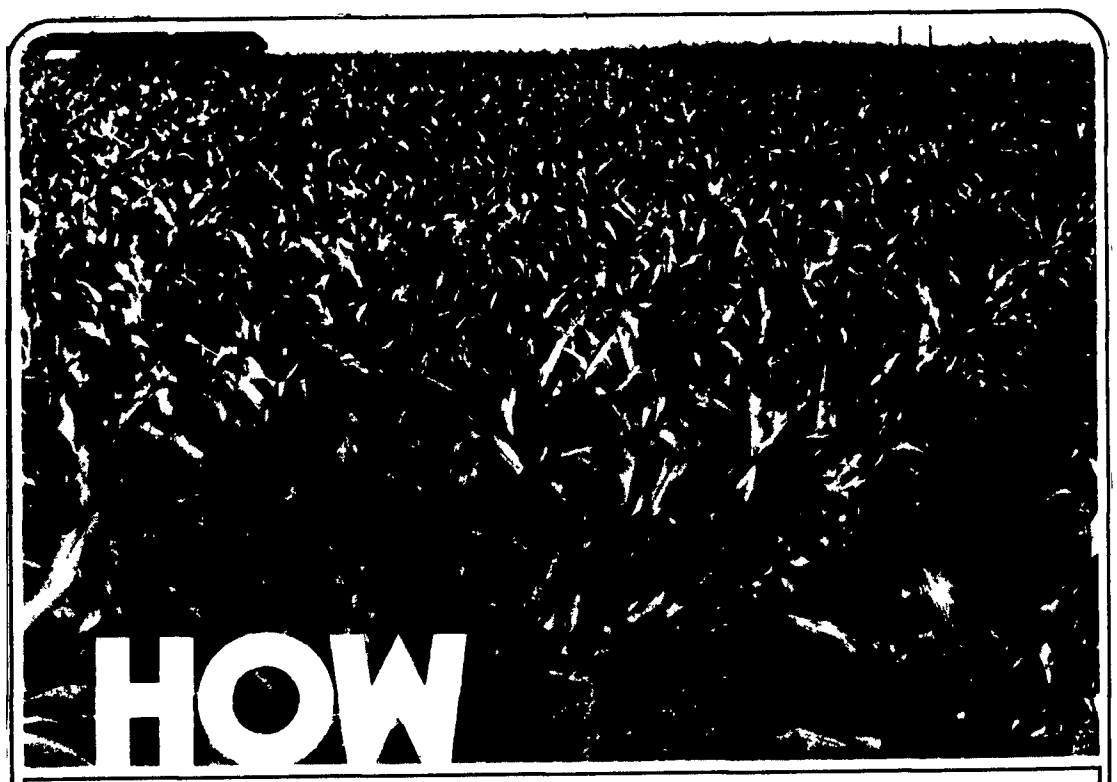

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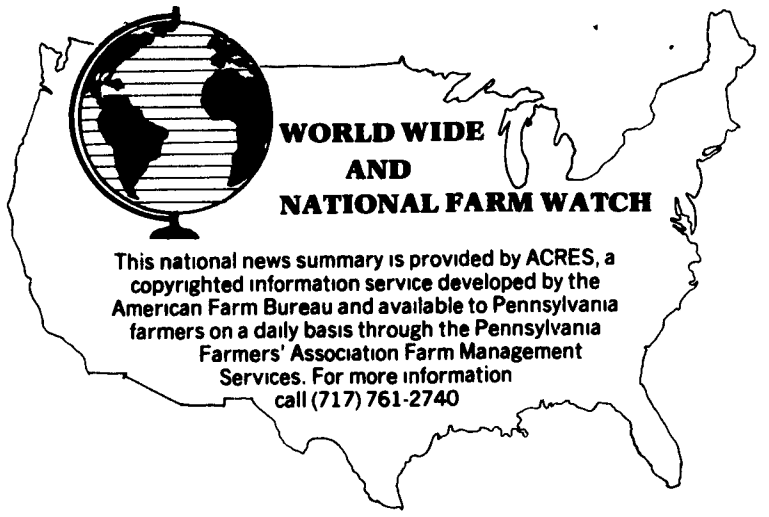
WORLD WIDE
AND
NATIONAL FARM WATCH
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HIGHER FARM INCOME PREDICTED FOR 1987. CHICAGO TRIBUNE – Here's an optimistic forecast for the Midwest farm economy in 1987: Farm income will rise. Unfortunately, it won't go up enough to save thousands of Midwest farmers who are on the brink of going out of business. But it will go up enough to help thousands more stay on the land at least a little longer. The forecast is based partly on expected increase in agricultural exports.

U.S. PLANS EC TRADE CURBS. W. POST, W. TIMES – The Reagan Administration may announce new steps today toward restricting imports from the 12-nation European Community in retaliation for tariff increase on U.S. corn sales to Spain, say informed White House officials. The decision threatens to touch off a trade war with the EC.

'PEACE' & U.S.-USSR TRADE. W.S. JOURNAL – U.S. small businesses are doing more trading with the Soviets. A Maine sheep rancher figures he is promoting world peace by buying wool from the Russians. He's blending the Soviet wool with equal portions of his own crop for a "peace fleece."

AG BANKS SUE U.S. SYSTEM. W. POST – Solvent from banks in the Northeast and Texas are headed to court to argue for a limit on how much money they can be forced to provide to bail out troubled segments of the nation's Farm Credit System.

THE 'KILLKERS' ARE COMING. UPI NEWSFEATURE – African killer bees are nearing the Mexican border on their slow migration from South America, posing a threat to the largest honey exporting industry in the world. While the killer bee's sting is no worse than any other individual bee sting, the African bee is extremely aggressive, easily irritated and tends to swarm to the attack.

AG SURPLUSES IMPERIL EC. N.Y. TIMES – Europe's food surpluses, which have saddled taxpayers with crippling bills and created sharp political tensions with the rest of the world, now threaten to push the European Community into bankruptcy early next year. The EC's 12 member nations are storing 1.3 million tons of excess butter and nearly three quarters of a million tons of unwanted beef. Another million tons of surplus milk is stored in powder form. Their grain mountain stands at close to 17 million tons.

ANIMAL & PLANT INSPECTION. AP – USDA officials want operators of aircraft and ships carrying foreign plants and animals to provide official notice 24 hours in advance of arrival at U.S. ports. The proposal would ensure that inspections are done immediately on arrival, says Bert W. Hawkins, head of the USDA's Animals and Plant Health Inspection Service.

END AFRICAN BY 2000. BALTIMORE SUN, W.C. JOURNAL, AP – That's the aim of a program being planned at the White House. While a large-scale aid effort isn't planned, the initiative would involve exhorting the continent's nations to abandon policies considered discouraging to food production.

FARMER'S SHARE OF A LOAF. KNIGHT RIDDER NEWSPAPERS, CHICAGO TRIBUNE – The price of a loaf of bread has doubled during the last 15 years, but the farmer's slice of the revenue has declined from 9% in 1971 to 7% in 1986. Therein lies a message for wheat growers. The likelihood of a rise in the grower's stake of the finished product is almost nil, and analysts say overall domestic demand for wheat products is, at best, static.

USSR'S NO. 1 U.S. CONTACT. W.S. JOURNAL – People are wondering whether Dwayne O. Andreas of Archer Daniels Midland Co., is edging out Armand Hammar, chairman of Occidental Peteroleum Co., as Moscow's favorite American businessman. Like Mikhail Gorbachev, Andreas is a farm boy.

TO SOLVE FARM CRISIS, READER DIGEST – That's the gist of a story reprinted by from the AMERICAN SPECTATOR. STOP HELPING FARMERS. The story asks: Could it be that all the government programs are actually hurting farmers? Rather than preserving homesteads, could these subsidies be taking away the advantages of the family farm? If we only stopped trying to help farmers, might not everyone, taxpayers and farmers alike, be better off?

VICTIMS OF CHERNOBYL. HEALTH MAGAZINE, W. POST – How many people eventually will die from the Soviet nuclear explosion fallout? A lingering sickness will appear slowly in people over 17 the next 70 years. It isn't known how many cancers will come from radioactive particles taken up by plants and animals and later ingested by humans.

Top Stories Of 1986

(Continued from Page A38)

candidate for governor, Robert Casey, was one of the featured speakers.

NOVEMBER 15

The Friends of Agriculture held their second annual meeting at Ronks. Allan Musselman, director, told the group that if ag land is preserved, this generation must do it.

NOVEMBER 22

Papers were signed that transferred the ownership of the guernsey barn to a Florida developer. The landmark dairy sales barn located east of Lancaster will become a shopping center by next spring.

NOVEMBER 29

The new tax law will cost most farmers more dollars. This according to Dr. Larry Jenkins, Penn State tax specialist. A recent Penn State study estimated the average farmer can expect tax increases of just over $1,500.

DECEMBER 6

A faith in farming speaker says agriculture looks better in the 90s. A seminar sponsored by the Laurelville Mennonite Church Center was held in the interest of farmers who have been hurt by adverse economic conditions.

DECEMBER 13

Henry Givler retires from a state FFA career that spans 34 years. Givler sees vo-ag students now preparing for a great diversity of available ag-related jobs.

DECEMBER 20

A new rabies law has been signed that goes into effect shortly. Dogs and house cats are included. A $300 per-day fine can be imposed for noncompliance.

DECEMBER 27

Lancaster countians pay tribute to Arnold Lueck who was retiring from the Penn State Extension Service after 25 years. Lueck is well known for his help with agronomy and horticulture problems.

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FRI., JANUARY 16 - 6:30 P.M.

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SAT., JANUARY 17 - 6:00 P.M.

Spool cabinets, stuffed bear on wheels, Hubley revolver, peg shooter, 5 sad irons in round metal holder, small irons, baskets, candle maker, assortment of butter molds, wooden shovel, goose wing axes left and right, other axes, marking axes, wooden and steel squares, dividers, drawing knives, cooper's froe, assortment of froes, buck saws, bow saw, frame saw, wooden braces, spoke shaver, bark spud, framing chisels, slick, corner chisels, reamers, flails, sledge hammers, oxen shoes, tongs, farrier - blacksmith equipment, dough scraper, Dengle snock and hammer, wheel race, commander, mauls, assortment of wooden planes, cooper tools, crocks, jugs, bear trap, scissors, cookie cutters, cherry seeder, butter spoons, nutmeg grinders, iron kettle, hatchets, adze, open scoop, Conestoga wagon jack, grain cradle and extra parts, spear, molding tools, fluters, cow bells, cannon balls, cannon, dagger dated U.S. 1918, lancets.

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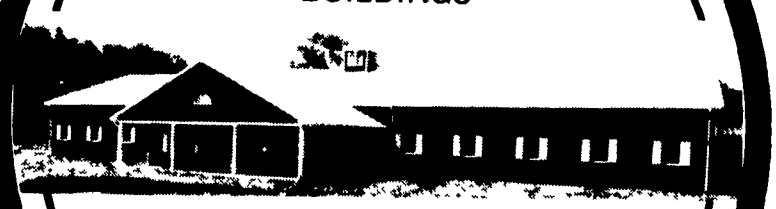

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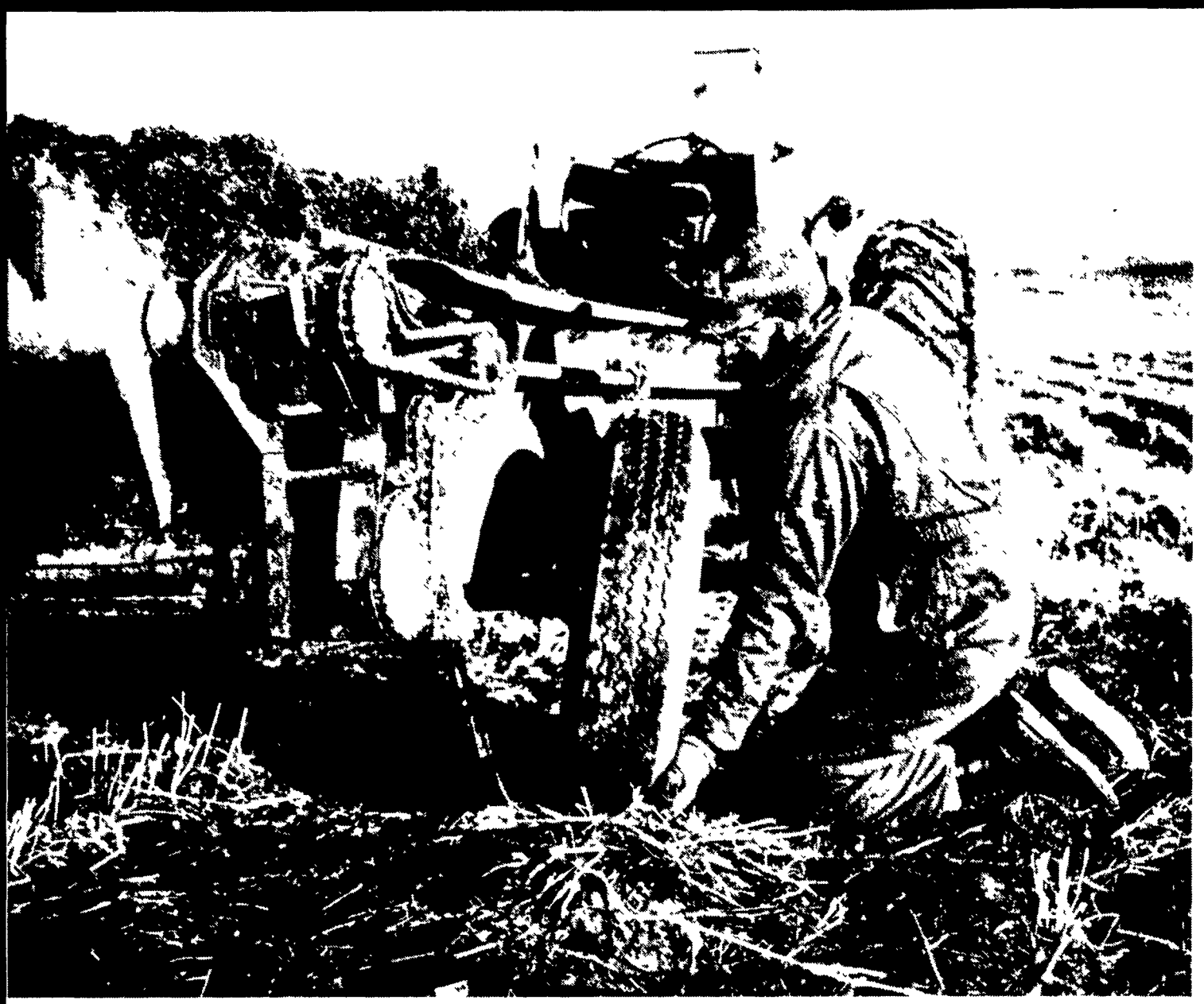

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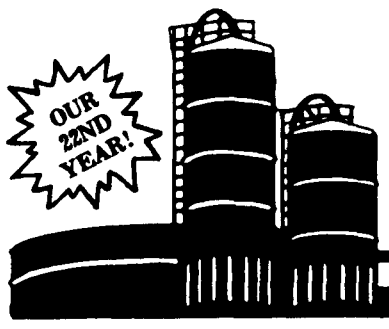

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Calico Shop Offers Customers Quilting Supplies With A Touch Of Nostalgia

BY BARBARA MILLER
Lycoming Co. Correspondent

COLUMBIA CROSS ROADS — From its unintentioned beginning to its unusual decor combining antiques and a loft with a broad range of cotton material, the Strawberry Patch Calico Shop smacks of the romantic.

Webster defines the romantic as "Impractical in conception or plan... marked by the imaginative or emotional appeal of what is idealized."

Jeannie Wilber is proprietor of the thriving Strawberry Patch located in the hills of Bradford County. By her own admission a romantic, she says of the shop, "It's nothing, I ever set out to do, but I love it."

That Jeanne's customers adore the shop's atmosphere is obvious.

"I come here to get a fix," sighs Marty Burns, a frequent customer. Marty was inhaling the fragrant rosepetaled potpourri ensconced in a giant ceramic bowl as she sorted through the quilting patches. Escalating the spicy aroma even further were nearby sticks of cinnamon bark piled like logs and tied together with a red ribbon.

Customers not only appreciate the fact that they may choose fabric from 3,000 bolts of material but that upon entering the shop they are treated to the nostalgic sights, smells, and sounds of yesteryear. It is a toss-up whether they first hear the tinkling of old bells on the door or are assaulted by the spicy scent of the potpourri wafting down from the loft above.

Decorated with wreaths of various materials, the entryway contains an assortment of old cupboards holding handmade items for sale. At the bottom of the staircase ascending to the loft is a scene typical of the shop. A small lighted lamp and several artifacts occupy an old stand beneath a colorful painting of a woman handsewing a quilt. With its artful blend of antiques, quilts and sale goods, the mood of the shop is definitely that of country nostalgia.

It was while Jeanne's husband, Gene, was a POW in Vietnam that Jeanne says she became interested in quilting. Gene, who retired from the air force in 1973, spend his last five years of duty in a Vietnam POW camp. Jeanne, who possesses a degree in music and loves to paint, said while Gene was away she "lost her inspiration for painting" and became intrigued with quilting.

The Wilbers had bought a rambling country home located in the hills of Bradford County for retirement purposes in 1965. But it was while Gene was held prisoner that Jeanne and their four children moved into their present house.

Jeanne says her fascination with quilting was piqued by, "The nostalgia of studying an antique quilt and wondering what the woman was like who made the quilt."

Further, she discovered that quilts showed the different personalities of the women who made them. "You could tell by the colors used, the rhythm of stitches. You could tell if they were strictly for utilitarian purposes or for more decorative ones," she added.

A prim and precise woman, Jeanne observes, might choose soft pinks and greens and make a quilt of appliqued roses using precise small stitches. Whereas another woman would select colors of browns with bright orange or bold black and red. The quilts with the big stitches, Jeanne says, were usually sewn by very young girls or by older women with failing eyesight. At that time girls of seven or eight were already learning to quilt, Jeanne reports.

In 1968, when Jeanne began her quilting quest, it was very difficult to find material about quilting. It wasn't until 1976, the year of the bicentennial, that there was a resurgence of quilting in the country. So Jeanne took books out of the library and talked with older people who quilted and began to quilt herself.

Her quilting proceeded at a slow pace during this period for she spent time speaking on behalf of the POWs. According to friends, she never gave up hope that Gene would return alive. It was her faith, Jeanne says, that sustained her during this time.

It wasn't until 1981 that events leading to the opening of The Strawberry Patch Calico Shop began. At that time Jeanne's daughter, Sue, and daughter-in-law, who were both college students, suggested to Jeanne and Gene that they would like summer jobs at home making patchwork pillows to order. The Wilbers staked the girls to 15 bolts of fabric for their venture and Jeanne's son, Mark, advertised their wares in a national magazine.

By the end of summer, Jeanne reports, the girls had acquired employment elsewhere and Jeanne was fulfilling their orders for pillows. It has become painfully obvious by this time that the girls had miscalculated the time needed to make a pillow and the profit margin on each one was nil. Soon the business was terminated.

But as she made the pillows, Jeanne says, she fantisized about the women she was making the pillows for. "It would be a lot more fun to just sell fabric off the bolt and get to know the women I'm selling to," she thought.

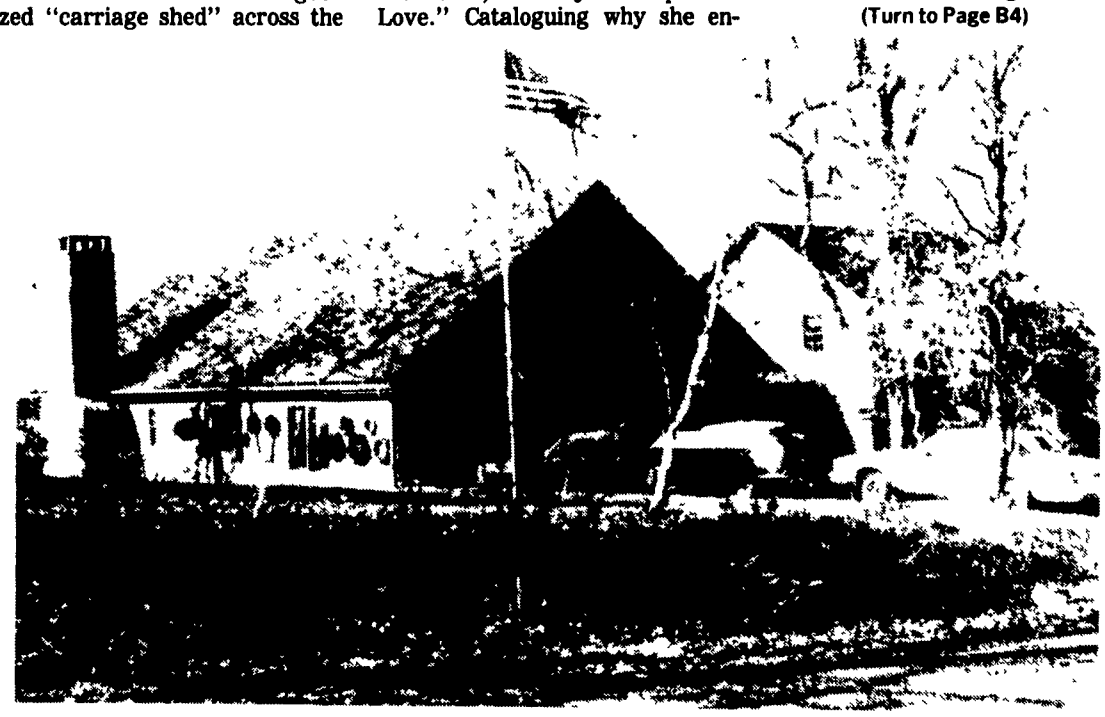
At this time Jeanne still had what remained of the 15 bolts of material, but not for long. Shortly, Mark put an advertisement in a local paper saying Jeanne would be open for business the following week — and then informed her of what he had done. Thus, the Strawberry Patch Calico Shop was born.

By the end of the month Jeanne had increased her stock to 45 bolts of material. Today, in addition to 3,000 bolts of material, her shop offers a wide assortment of quilting supplies. During the past five years the Wilbers built an addition to their home which included a loft and a room below for classroom use to house their growing enterprise. Currently they have under construction a good sized "carriage shed" across the road from their home which will be used for classrooms and storage.

Jeanne likes people. A footnote on a pamphlet describing the shop lists it as, "The Quilt Shop With Love." Cataloguing why she enjoys running the shop, Jeanne exclaims, "Oh the rewards are the people, the new acquaintances, the many friends I've made through the business — teaching women to

(Turn to Page B4)

Jeanne dips some potpourri from a large ceramic bowl for a customer. The fragrant odor greets guests as soon as the shop door opens.



The Strawberry Patch Calico Shop is housed in part of the Wilber's sprawling country home in Columbia Cross Roads.

Jeanne and Sue wait on Marty Burns, one of the shop's best customers.

Jeanne and her daughter, Sue Efthimiou, sit by the fireplace in Jeanne's colonial kitchen. The kitchen is under the loft where the 'material' shop is located.

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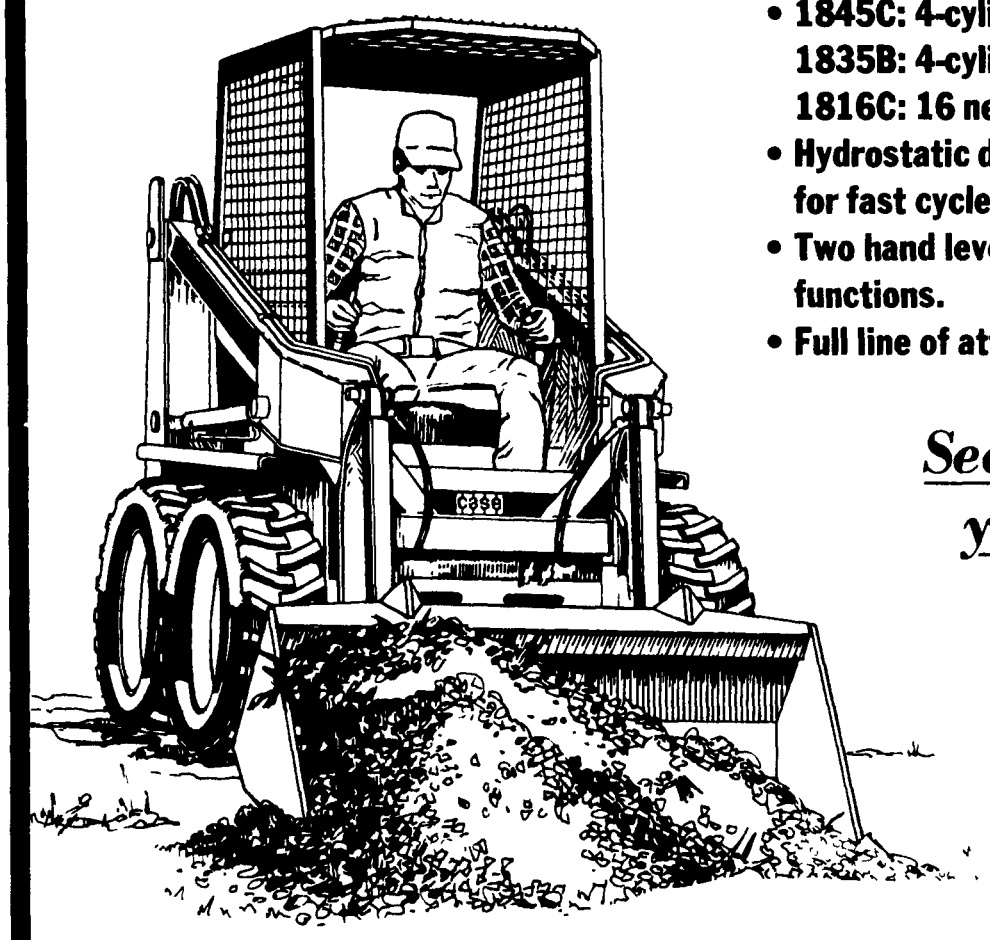

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Strawberry Patch Calico Shop

(Continued from Page B2)

do something they never thought they could do — giving them something creative to do in their spare time."

Whereas, according to Jeanne, the hardest thing about running the shop is that she occasionally has a customer who is displeased. Her depth of concern about her customers is best illustrated by an anecdote told by Sue. One morning not long ago, Sue reports, she found her mother in tears while making out a new price list which raised the cost of material to customers. Although the shop had absorbed previous price increases, when forced to raise her prices, Jeanne simply hated the thought of charging her customers more for material.

Jeanne is proud of the fact that the Strawberry Patch offers about 75 classes each semester with the semesters running from February to June and September to December. The classes are scheduled for beginning to advance quilters and for stencilling, basket making and other creative arts.

Frequently Jeanne engages guest teachers such as Pat Cox of Minnesota who specializes in Baltimore Alburn quilts and other quilting experts to teach the classes.

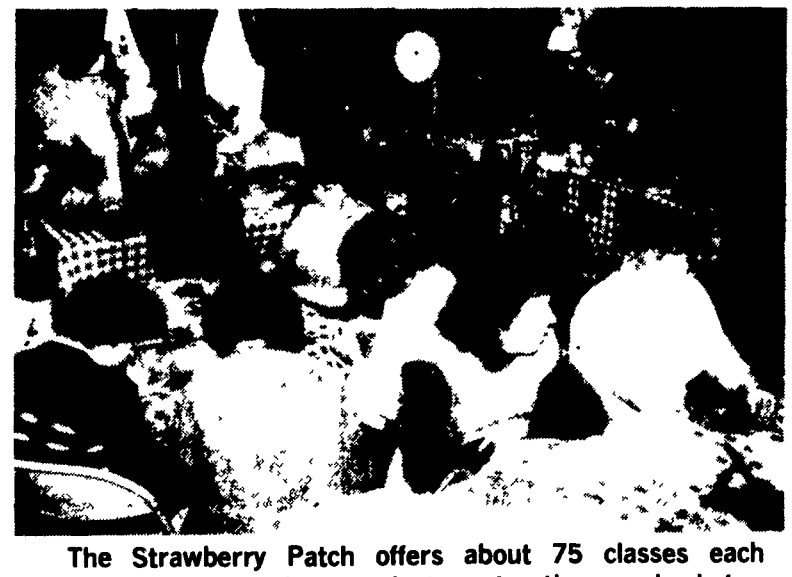
She was flattered, she says, when her shop was invited to be a vendor at the recent Great American Quilt Festival in New York City. One of Jeanne's customers, Cindy Applegate of Montrose, entered a beautiful quilt in the festival. Jeanne draws customers from New York state and even from Philadelphia. This summer she had a customer from Manhattan drop in to match material purchased at the quilt festival in New York City.

The Strawberry Patch is a family enterprise. Husband Gene, and daughter, Sue Efthimiou, spell Jeanne with the customers. Although Jeanne makes all the material selections, her sons, Mark and Bruce, take care of the business end.

Jeanne, who teaches a bible study and helps conduct choir in her local church attributes the success of her shop to her faith.

"I started this with a prayer and it is my constant. I say a prayer every morning when I walk up the steps. This has accounted for many of the blessings."

A true romantic, Jeanne named her shop after a failed strawberry patch. Laughing, she says she thought perhaps she could cultivate this type of patch best. Whether Jeanne has a green thumb or not may be a debatable point, but all who visit her establishment agree that, "it's the berriest."



The Strawberry Patch offers about 75 classes each semester. Here, students work at constructing rope baskets.

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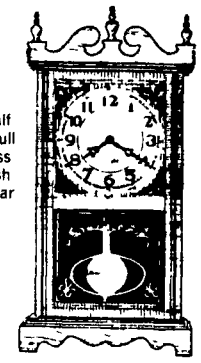

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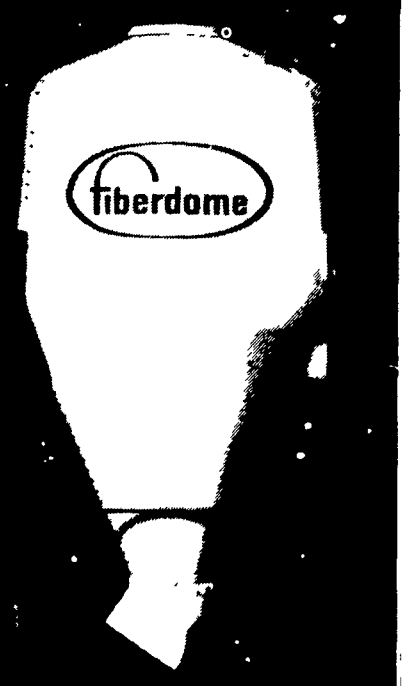

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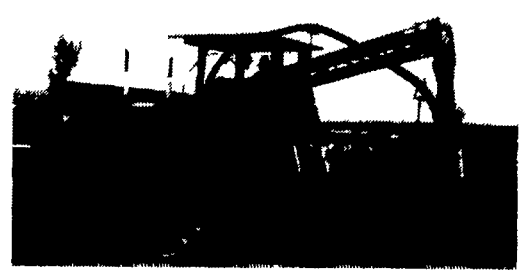

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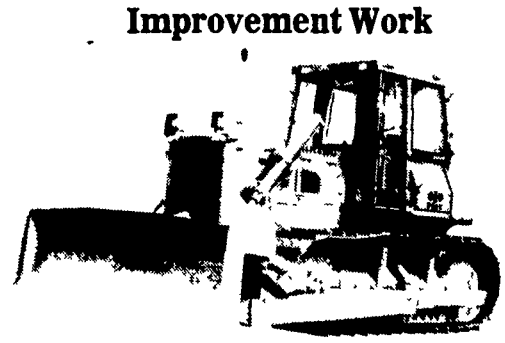

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Direct Marketing Conference Set For February

NEWARK, Del. — The 1987 Mid-Atlantic Direct Marketing Conference is scheduled for Thursday through Saturday, Feb. 12 through 14, at the Radisson Hotel, Wilmington.

Open to all persons interested in direct-to-the-consumer marketing, the conference program will center around merchandising practices for many assorted products including wines, baked goods, mushrooms and mums. An all-day tour of the American Mushroom Institute in Kennett Square, Phillips Mushroom Farm and Longwood Gardens will close the conference on Saturday.

Registration for hotel rooms must be made by Jan. 19. The deadline for conference registration, including dinner and tour options, is Feb. 5.

For further information regarding the conference, contact Carl German, Extension Crops Marketing Specialist, Townsend Hall, University of Delaware, Newark, DE 19717-1303, or call German at (302) 451-2511.

Ida's Notebook

Ida Risser

January is the time to make new year's resolutions to improve ourselves. This is not something that I usually do as I think any day in the year is fine for a new resolution.

If I want to lose ten pounds, all I need to do is make up my mind and do it. Awhile back I decided to lose 20 pounds and so I did. But it did mean being continually hungry and so now I try to never overeat or else I eat less for a day or two afterward.

Making up your mind to do something is half the battle. The other day I headed for the attic to put away empty Christmas boxes and decided it was time to sweep the place. The weather was fine for working up there since it was neither too hot nor too cold. Now there wasn't that much floor to sweep as it is quite full. My parents left some things up there and former tenants left other items stored there along with my things.

The assortment is endless as it includes wicker baby carriages, bags of cork that were in a mattress and a torn hammock among pieces of furniture. There are bags of old clothes such as we used to sell to a "ragman. But nowadays there is no sale for such things and no one comes to inquire about them as they formerly did.

Each year I try to share a few antiques with my children. After all, they will eventually get them and I might as well have the pleasure of seeing their reaction to "cup plates" of Sandwich Glass or heavy, blue telephone insulators. These last are not only decorative but make good paperweights as well.

After the rush of the holidays, all I want to do is relax and start on braiding my seventh rug. Instead of a round one I think that I'll try an oval one this time.

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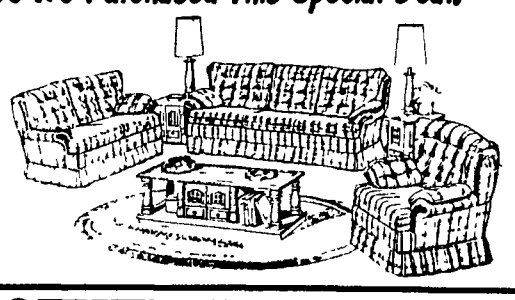

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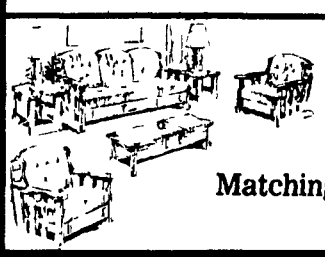

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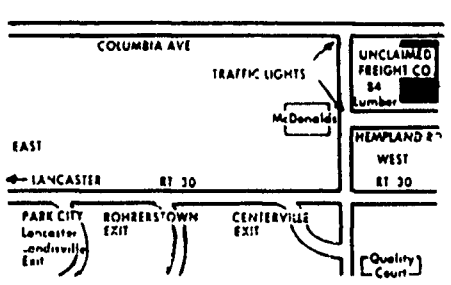

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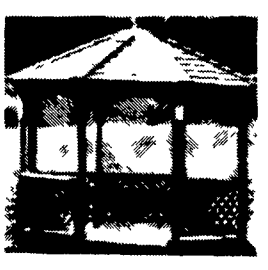

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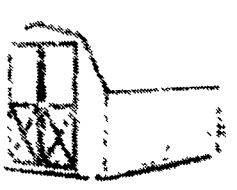

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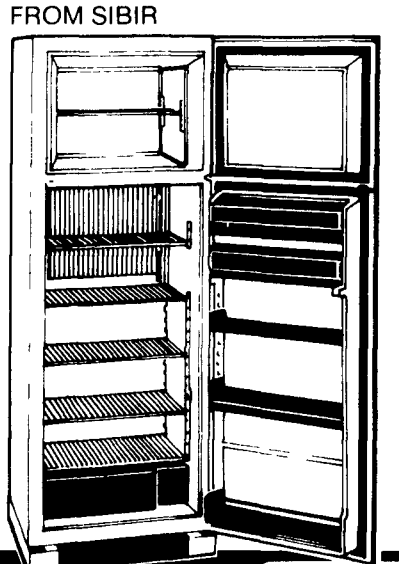

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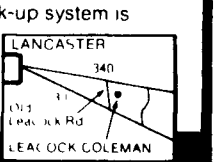

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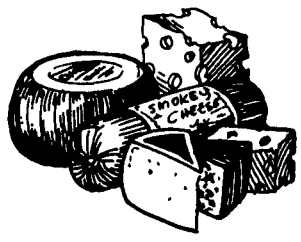
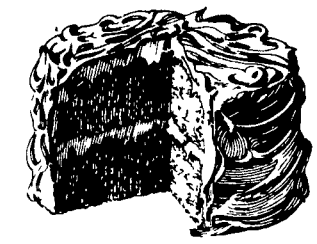


Home On The Range



Resolve To Be Thin In 1987

If all of those holiday goodies that tasted so wonderful have found their way to your waistline, now is the time to start correcting the problem.

With New Year's resolutions abounding, a decision to eat right and cut back on calories in 1987 would be an appropriate addition to that list of self improvements for the new year. The dividends from eating right should soon become apparent in the numbers on the bathroom scales and in the way you feel about yourself.

To help you trim down to your pre-holiday weight (or below) we've collected some sumptious low-calories recipes. Who knows, you may even discover you enjoy watching your weight!

HAM AND SWISS OPEN FACERS
Sauce:
1 cup sour half and half
¼ cup chili sauce
3 tablespoons pickle relish
1 teaspoon Worcestershire sauce
½ teaspoon Dijon-style prepared mustard
½ teaspoon salt
1/8 teaspoon garlic powder
1/8 teaspoon pepper
Sandwich:
4 slices whole wheat bread, toasted
Lettuce
8 thin slices (4 ounces) lean boiled ham
4 slices (4 ounces) Swiss cheese
4 slices pineapple
Parsley, if desired

For sauce, combine all ingredients in small mixing bowl. Chill, covered, 1 to 2 hours to allow flavors to blend. For sandwiches, spread 1 teaspoon sauce on one side of each slice of bread. Layer lettuce, 2 slices ham, cheese and pineapple on each slice of bread. Drizzle 3 tablespoons sauce over each sandwich. Garnish with parsley. Serve immediately. 379 calories per serving.

CHICKEN VEGETABLE SALAD
⅔ cup lowfat cottage cheese
⅓ cup dairy sour cream
½ teaspoon curry powder
¼ teaspoon salt
1/8 teaspoon pepper
2 cups cooked cubed chicken
1½ cups cooked broccoli flowerettes
½ cup EACH: sliced water chestnuts, chopped celery, shredded raw carrot
Cabbage leaves

Beat cottage cheese in small mixer bowl on high speed until almost smooth, about 5 minutes. Stir in sour cream and spices. Combine chicken, broccoli, water chestnuts, celery and carrot. Fold in cottage cheese mixture. Chill, covered, 1 to 2 hours to allow flavors to blend. Serve in cabbage leaf cups. Recipe makes 6 servings. 170 calories per serving.

CHEESY EGG OPEN FACER
4 hard-cooked eggs, chopped
¼ cup dairy sour half and half
2 tablespoons EACH: chopped celery, chopped green pepper
1 tablespoon EACH: sweet pickle relish, prepared mustard
¼ teaspoon salt
1/8 teaspoon pepper
6 slices bakery type white bread, toasted
6 1-ounce slices mozzarella cheese
6 slices tomato

Combine eggs, sour half and half, celery, green pepper, pickle relish, mustard, salt and and pepper in mixing bowl. Spread over toasted bread slices. Broil several inches from source of heat for 3 minutes. Remove from broiler and top each with a slice of cheese and tomato. Broil until cheese melts. Recipe makes 6 servings. 240 calories per serving.

ASPARAGUS WITH TANGY SAUCE
1½ pounds fresh asparagus spears or 2 10-ounce packages frozen asparagus spears
½ cup dairy sour cream
½ cup mayonnaise
2 teaspoons lemon juice
1 teaspoon prepared mustard

Cook asparagus in boiling water until tender; drain. Place in serving dish. While cooking asparagus, combine remaining ingredients in small saucepan. Heat over low heat, stirring frequently, until thoroughly heated. Pour over hot asparagus or serve as a sauce in a dish. Garnish with chopped pimento if desired. Makes 6 servings.

STIR FRY CHICKEN AND VEGETABLES
8 broiler-fryer chicken thighs, skinned and boned
2 tablespoons cooking oil
2 carrots, thinly sliced
2 ribs celery, diagonally sliced
1 medium onion, chopped
½ teaspoon salt
¼ teaspoon ground black pepper
1 tablespoon brown gravy sauce
2 tablespoons soy sauce
¼ cup chicken broth
1 16-ounce can bean sprouts, drained
1 cup cooked rice

Freeze chicken thighs slightly to make cutting easier. Cut chicken into bite-size pieces. In large frypan, place oil and heat to medium high temperature. Add chicken and stir fry about 3 minutes or until chicken loses pink color. Add carrots, then celery and onions, continuing to stir throughout entire cooking process, about 5 minutes. Sprinkle with salt and pepper; add brown gravy sauce and soy sauce. Pour chicken broth over contents in frypan. When liquid begins to boil, add bean sprouts and rice. Heat about 2 minutes or until thoroughly heated (vegetables should remain crisp; be careful not to overcook). Makes 4 servings.

Help control weight with low-calorie recipes like Ham and Swiss Open Facers and Turkey Vegetable Salad.

TURKEY VEGETABLE SALAD
Italian Dressing:
2 8-ounce cartons plain yogurt
3 tablespoons minced fresh parsley
2 tablespoons minced pimiento-stuffed green olives
2 tablespoons minced green onion
1 tablespoon tarragon wine vinegar
1 teaspoon sugar
½ teaspoon basil
½ teaspoon oregano
½ teaspoon salt
¼ teaspoon pepper
Salad:
3 cups lettuce, torn into bite-sized pieces
2 cups (10 ounces) cooked turkey, cut into julienne strips
1 9-ounce package frozen whole green beans, cooked, drained and chilled
12 cherry tomatoes
3 large carrots, thinly sliced
1 large cucumber, thinly sliced

For dressing, combine all ingredients in small mixing bowl. Chill, covered, 1 to 2 hours to allow flavors to blend. For salad, line a large chilled platter with torn lettuce. Arrange remaining salad ingredients in mounds on platter. Pass dressing. 178 calories per serving.

PORK WITH STEAMED SPICED SAUERKRAUT
2 pounds sauerkraut, drained, washed and squeezed dry
½ cup chopped onions
1 tablespoon margarine
1 tablespoon sugar
2 cups cold water
1 large raw potato, grated
Garni (in cheesecloth bag)
5 whole juniper berries
6 peppercorns
2 bay leaves
¼ teaspoon of caraway seeds
1 whole allspice
6 pieces pork loin (18 ounces)

Preheat oven to 325°F. Brown onions lightly in margarine, add sugar, water and sauerkraut. Toss with a fork until well separated. Add grated potato. Put sauerkraut mixture in 2-quart casserole; burrow hole in sauerkraut and bury garni bag. Brown the meat and place it on top of the sauerkraut. Cover and bake for 1½ to 2 hours. Cover may be removed if meat needs browning. Makes 6 servings. Approximately 250 calories per serving.

PINEAPPLE-ORANGE BUTTERMILK REFRESHER
2 cups cold buttermilk
½ cup chilled unsweetened pineapple juice
½ cup chilled fresh orange juice
2 teaspoons fresh lemon juice
¼ cup sugar
Pineapple and orange pieces

Place all ingredients, except pineapple and orange pieces, in blender container; cover. Blend until frothy and sugar is dissolved. Serve immediately in tall chilled glasses garnished with pineapple and orange pieces. Makes 3 cups. One cup equals 173 calories.

SWISS-BROCCOLI SOUFFLE
2 tablespoons butter
3 tablespoons flour
½ teaspoon salt
Dash cayenne
1 cup skim milk
1 cup (4 ounces) shredded Swiss cheese
4 egg yolks, slightly beaten
4 egg whites
¼ teaspoon cream of tartar
1 10-ounce package frozen chopped broccoli, cooked and drained

Preheat oven to 350°F. Melt butter; blend in flour, salt and cayenne. Remove from heat; gradually stir in milk. Heat to boiling, stirring constantly. Boil and stir 1 minute. Remove from heat and stir in cheese until melted. If necessary, return to low heat to melt cheese. Do not boil. Blend a small amount of hot mixture into egg yolks; return all to saucepan and blend thoroughly; set aside. Beat egg whites until frothy. Add cream of tartar and beat until soft peaks form. Fold cheese sauce into egg whites, then broccoli. Turn into unbuttered 6 cup souffle dish. Bake 40 to 45 minutes. Serve immediately. Makes six servings. Approximately 199 calories per serving.

(Turn to Page B8)

Recipe Topics

If you have recipes for the topics listed below, please share them with us. We welcome your recipes, but ask that you include accurate measurements, a complete list of ingredients and clear instructions with each recipe you submit. Send your recipes to Sue Keene, Lancaster Farming, P.O. Box 366, Lititz, PA 17543.

January
10- Eggs-citing Eggs
17- Gelatine Salads & Desserts
24- Peanut Butter Recipes

Featured Recipe

If the holidays blew out your budget, you'll be looking for ways to cut down — especially at the grocery store where an amazingly small cartful of groceries can add up to a bundle. Here's a nutritious savory idea from the American Egg Board that will help provide high-quality protein and an assortment of vitamins and minerals while saving you pennies at the same time.

Vegetable Egg Bakes
2½ cups sliced zucchini (about 2 medium)
1½ cups sliced onion
1 tablespoon oil
1 small eggplant cut into 1½x¼-inch strips
1½ cups chopped green pepper
2 cloves garlic, minced
1½ teaspoons salt
1 teaspoon parsley flakes
½ teaspoon oregano leaves, crushed
¼ teaspoon pepper
2 medium tomatoes, peeled and wedged
8 eggs

In large omelet pan or skillet over medium heat, cook zucchini and onion in oil until lightly browned, about 8 to 10 minutes, stirring frequently. Add eggplant, green pepper and garlic. Cover and cook an additional 5 minutes. Stir in seasonings. Top with tomato wedges. Cover and cook just until tomatoes are soft, about 3 minutes more. Spoon about 1¼ cups of the mixture into each of 4 (12 to 14 ounces) oven-proof bowls or baking dishes. Break and slip 2 eggs into each bowl on top of vegetable mixture. Bake in preheated 350°F. oven until whites are set and yokes are soft and creamy — about 20 minutes.

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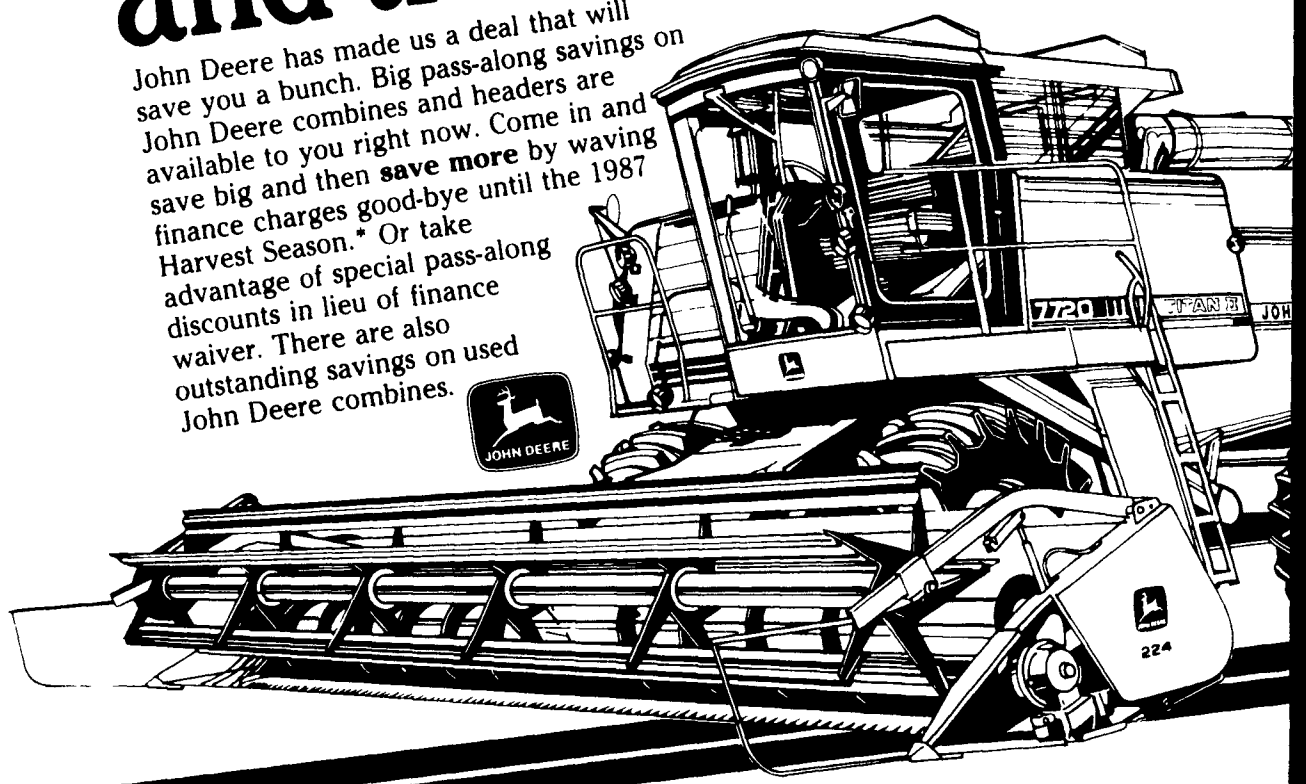

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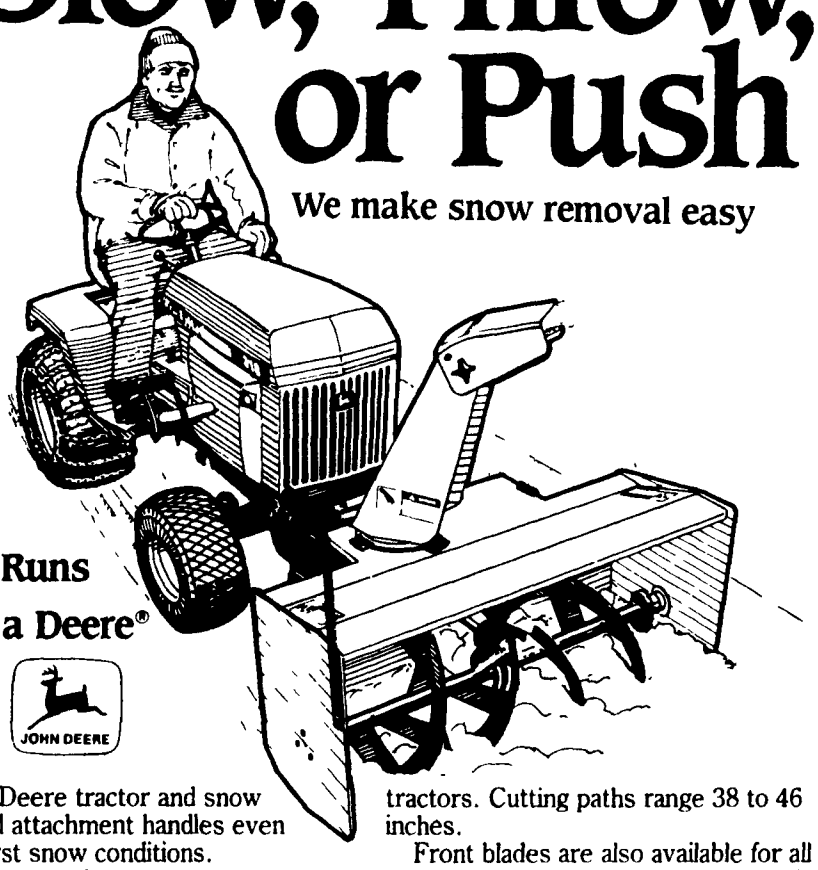

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Cook's Question Corner

If you are looking for a recipe but can't seem to find it anywhere, send your recipe request to Cook's Question Corner, care of Lancaster Farming, P.O. Box 366, Lititz, Pa. 17543. There's no need to send a SASE. If we receive an answer to your question, we will publish it as soon as possible.

Answers to recipe requests should be sent to the same address.

QUESTION - Jane Coale, New Milford, would like a recipe for rock candy (clear crystallized sugar on a string)

QUESTION - Mary S Criswell, Martinsburg, would like a recipe for poppy seed filling used for breads or filled cookies such as Roszkie (a rolled cookie filled with poppy seed filling)

QUESTION - Turla Hogg, Slippery Rock, would like a recipe for the apple dish served on Shoney's Restaurant Buffet The apples are sliced with cinnamon, etc

QUESTION - Harold Latshaw, Walnutport, would like a recipe for kipfels

QUESTION - Mrs Edith Rader, Holmes, would like a recipe for pan pudding that is not gummy

ANSWER - Mrs C Cassner, Newburg, requested a recipe for a coconut cake using fresh coconut grated and coconut milk Thanks go to Mrs Milton Reichard, Shippensburg, for sharing the following recipe The second recipe comes from Lancaster Farming's recipe files

Coconut Cake

2 cups sugar
½ cup shortening
2½ cups flour
2 teaspoons baking powder
3 eggs
1 cup milk or ½ cup coconut milk and ½ cup milk

Note: You can ice with your favorite icing flavored with coconut flavoring

Coconut Cake

5 egg whites
2¼ cups cake flour
1 teaspoon baking soda
2 cups sugar
½ cup margarine or butter, softened
½ cup vegetable oil
5 egg yolks, slightly beaten
1 cup buttermilk
1 teaspoon coconut extract
½ teaspoon vanilla
1 7-ounce package flaked coconut (or 2⅔ cups fresh grated)
Coconut Cream Cheese Frosting
2 cups flaked coconut

Beat egg whites in medium bowl on high speed until stiff peaks form Beat remaining ingredients, except frosting and 2 cups coconut, in large bowl on low speed for 30 seconds, scraping bowl constantly Beat on high speed 3 minutes, scraping bowl occasionally Fold egg whites into batter Pour into 3 greased and floured round pans, 8x1½ inches Bake until wooden pick inserted in center comes out clean, about 40 minutes cool 10 minutes Remove from pans Cool completely

Fill layers and frost side and top of cake with Coconut-Cream Cheese Frosting, sprinkling ⅓ cup coconut on frosting on each layer and remaining coconut on side and top Store frosted cake in refrigerator

Coconut Cream Cheese Frosting

3½ cups powdered sugar (about 1 pound)
½ cup margarine or butter, softened
1 teaspoon coconut extract
1 8-ounce package cream cheese, softened

Beat all ingredients until smooth and of spreading consistency

Low Calorie Recipes

(Continued from Page B6)

MACARONI-BEEF SKILLET SUPPER

1 cup elbow macaroni
1 pound lean ground beef
1 cup diced onions
1 clove garlic, mashed
2 tablespoons oil
1 8-ounce can tomato sauce
1 teaspoon salt
¼ teaspoon black pepper
1 cup catsup
1 8-ounce can mushroom stems and pieces, drained
2 tablespoons Worcestershire sauce
½ teaspoon Italian seasoning

Cook the macaroni in boiling salted water according to package directions. Drain and set aside. Saute the meat, onion and garlic in oil until the meat loses its pink color and the onions are tender. Add salt and pepper, tomato sauce, catsup, mushrooms, Worcestershire sauce and Italian seasoning. Bring mixture to a boil, and then simmer gently for about 5 minutes. Mix in the cooked macaroni and simmer for 5 more minutes. Makes 8 servings. Approximately 270 calories per serving.

GREEN BEANS

1 pound fresh green beans or 2 9-ounce packages frozen green beans, cooked
2 cups (1 pound) tomatoes
½ cup chopped celery
¼ cup chopped green pepper
½ teaspoon onion salt

Cook green beans until tender. Combine green beans, tomatoes, celery, green pepper, onion, salt and cook over medium heat about 15 minutes or until heated through. Makes 8 servings. Approximately 20 calories per serving.

CREAMY CHICKEN WITH ASPARAGUS

1 tablespoon butter
2 tablespoons all-purpose flour
2 teaspoons instant minced onion
½ teaspoon seasoned salt
1½ cups milk
2 cups chopped cooked chicken
1 cup (4 ounces) shredded Cheddar cheese

In saucepan over low heat, melt butter; stir in flour, onion and salt until mixture is smooth. Remove from heat; stir in milk. Heat to boiling, stirring constantly. Boil and stir 1 minute. Stir in chicken and ½ cup cheese. Heat just until cheese is melted and chicken is hot. Serve ½ cup creamed chicken over asparagus spears topped with 2 tablespoons cheese. 359 calories for ½ cup creamy chicken. 10 calories for 4 asparagus spears.

COCONUT RICE PUDDING

4 cups milk
1 3¼-ounce package coconut cream pudding and pie filling
½ cup packaged pre-cooked rice
½ cup seedless raisins
2 teaspoons maple flavoring
Grated orange peel

In saucepan, combine milk, pudding, rice and raisins. Heat until mixture comes to a boil (about 5 minutes). Add maple flavoring. Divide into serving dishes. Garnish with orange peel. Cover and chill. 162 calories per serving. Makes 8 servings.

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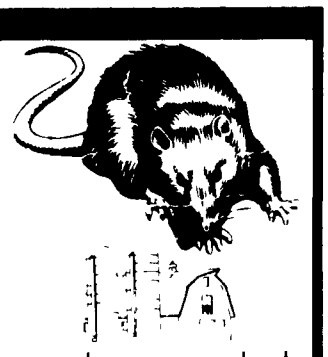

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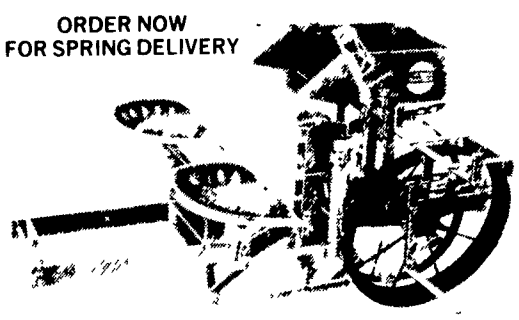

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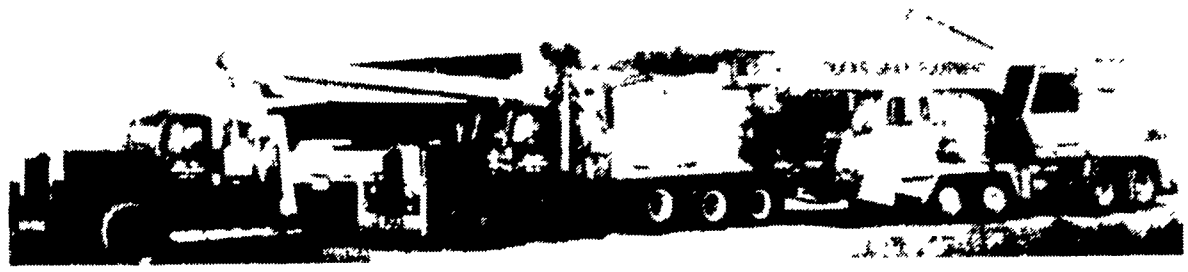

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On being a farm wife - And other hazards

Joyce Bupp

So, you want a husband who helps you out around your farmhouse, you say?

You want a farmer who recognizes that you lend not one, but two hands around the barn and field work, keep the books, tend the garden, raise the kids, maintain the house and all that other miscellaneous stuff that he takes for granted you as a farm wife will uncomplainingly do? And in return, you want a farmer who is willing to at least occasionally pitch in to help with household chores?

(Has she gone totally berserk, you're probably asking yourself by now?)

Could be. But do I ever have a solution for you to get him to pay a sliver of attention to what needs done around a house on a daily basis.

Plunk him between a large steel cattle gate and a 2,200-pound dairy bull who merely wants to get into his pen — which just happens to lie on the other side of that gate.

Do not panic when he calls home from the emergency room of a hospital more than one hundred miles away and says they haven't admitted him yet because they are still taking X-rays.

Consider yourself exceedingly blessed after several calls, a few uncertain and frightening hours in which he has little motor and muscle movement below his waist, but then grumbles that they won't feed him and he'd like to order out for a pizza.

Consider yourself further blessed when a caring and supportive circle of friends, neighbors and relatives rally with prayers, shower you with food, offer to help pack bull hamburger if necessary and lend you a spacious van in which to haul home one very sore, stiff, bruised farmer.

And count among your blessings very capable farm employees and children off on holiday vacation who uncomplainingly pitch in and help get the daily barn chores completed.

Now to the housework part.

As his battered body grows less painful each day, and he ventures less stiffly off the cattle show bed centered in your living room, you may begin considering this housework assistance part. A farmer, though black, blue and bruised, who manages to shuffle to the barn, and poke his crutch in the side of a heifer bent on stepping off the milkers, is certainly physically capable of unloading a dishwasher. But you might have to remind him of that once or twice until he gets the hang of it.

Likewise, he can sort mail, begin to do book and records work (once he can sit up straight in a chair for more than two minutes) and — hallelujah — answer the telephone.

Lest this sound cruel, bear in mind that physical therapists urge walking and exercise to help loosen up such stiffness and soreness.

Other possibilities include dusting, helping remove ornaments from the Christmas tree, cooking and cleaning up after meals, and lending a hand to unstick clogged drains. Clipping coupons for you may be considered light therapy to be undertaken while you milk cows and he keeps track of the world on the six o'clock news.

The boredom of such a lifestyle quickly takes its toll, lending him further encouragement toward hasty healing.

Don't plan on your household help for too long.

Thankfully.

Healthy Eating Habits: A Lifelong Gift

MEDIA — A taste for healthy eating is one of the most valuable and enduring gifts parents can give a child. According to Maryetta Dorricott, Delaware County Extension Home Economist, it's never too late — or too early — to start. Here are some suggestions:

• Always eat as a family. Turn off the TV during mealtime and, if possible, disconnect the phone. Encourage relaxation; don't battle about food or anything else during mealtime.

• Set a good example. Your child is more likely to give unfamiliar foods a try after watching you eat and enjoy a wide variety of foods.

• Encourage your child to sample a new food, but don't force foods on a youngster. Don't make the new food the price of dessert.

• Keep servings small so the children have the satisfaction of cleaning up their plates and asking for "More please."

• Encourage smart snacking, keep the kitchen stocked with a selection of healthy hunger stoppers; fresh fruit, vegetable sticks with a nutritious dip, raisins and cheese with whole grain crackers.

• Give kids a healthy start each morning. Make sure they rise early enough for a nourishing breakfast. Help them to prepare it for themselves.

The morning meal doesn't have to be cereal. Don't be afraid to try an unconventional breakfast; a peanut butter and banana sandwich, cottage cheese with sliced fruit, and macaroni and cheese are all nutritious and appealing.

Involve kids in menu planning and meal preparation. Children often enjoy helping prepare foods and enjoy eating them, too. Together, choose a main dish then let your child help shop for the frozen food and other ingredients.

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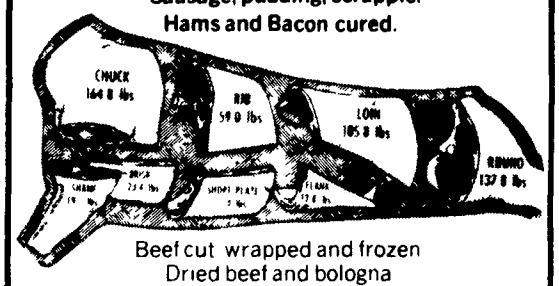

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Fire Removes Mysteries Of Little Bighorn

WASHINGTON — A 1983 prairie fire has shed strong light on the still-controversial Battle of the Little Bighorn, where Lt. Gen. George Armstrong Custer and some 260 of his men made their historic last stand — and lost their lives — in 1876.

The fire was "a blessing in disguise," says archeologist Richard A. Fox Jr. The flames had laid bare the field of combat, named after a river in southeastern Montana. "Some of that land was impenetrable before the fire," he says.

For 110 years, Custer and his disastrous encounter with as many as 2,000 Sioux and Cheyenne warriors have held captive the imagination of the public. More has been said about the struggle than any other battle in American history except perhaps Gettysburg.

Controversy Still Rages

"Argument and speculation swirl about it, partly because Custer remains an enigma and mysteries obscure the course of the fight," Robert Paul Jordan writes in the December National Geographic.

"Those who rode with him to the end left only death's mute testimony," Jordan writes. "Indian accounts varied, generally were long in coming, and often conveyed what the white man wanted to hear. Even today Indian resentment lingers at terms such as 'hostile' and at the mythology surrounding Custer."

But the fire that burned the grass and sagebrush cover off the undulating heights and wrinkled draws where Custer met his doom cleared the way for two seasons of toil by archeologists and volunteers equipped with metal detectors, trowels, and sieves.

The results are surprising. More than 4,000 artifacts have been unearthed: bullets and cartridge cases, iron arrowheads, pieces of firearms, buttons, a watch, and horse trappings. The almost complete skeleton of a trooper was also found.

It is the first time a battlefield has been systematically plotted into a grid to chart a fight's progress; the first time that modern ballistic techniques have been applied to a field of combat; and one of the few times that precise information has been recorded on the location of every relic found.

"The archeologists learned that the soldiers were relatively stationary, while the Indians moved freely about as they overran one position after another," Jordan writes.

Codes on one computer printout suggest the tragic scenario of a trooper who may have been the last man to die in the struggle. Archeologists speculate that Indians fired at him with at least six guns as he tried to escape the waning battle. When he dropped, they hacked at his body with knives and hatchets. They decapitated him.

Indians Outgunned Cavalry

Archeologists and firearms specialists have concluded from the evidence that the Indians outgunned the soldiers. Custer's Seventh Cavalry troops carried single-shot carbines and six-shot Colt revolvers. Ballistic studies show that the Indians had at least 41 kinds of firearms, including 16-shot repeating rifles.

The investigators' interpretation: "With the relative lack of cover available to Custer and the dispersed deployment of his command against superior numbers of Indians with greater firepower, the reason for the outcome of the battle can no longer be significantly debated."

The studies affirm the truth of the legend of Last Stand Hill. One by one, the survivors of Custer's five companies dropped in the gunsmoke and confusion. As the troopers' fire dwindled, the warriors, helped by women, rushed in and finished them off with rifles, bows, clubs, and hatchets. Most were stripped naked. Some were mutilated.

News of the June 25 debacle reached the American public right after the July 4, 1876, celebration of the nation's centennial, bringing disbelief, shock, and anger.

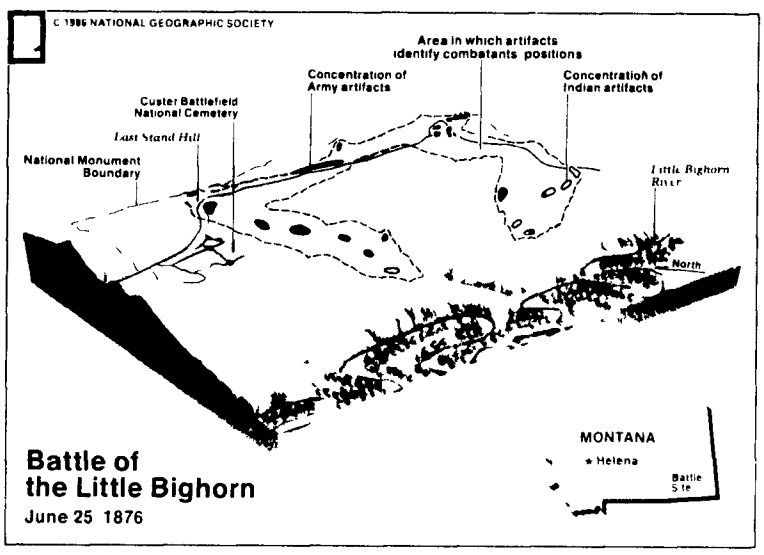
Nobody knows exactly how many Indians died in the brief but bloody battle. A good guess might be 100, says Jordan.

"It was over," he writes. "But most of all it was over for the Indians. These people of the plains long had been doomed by the white man's inexorable westward expansion. The Army had perpetrated cruelties in earlier Indian battles as savage as any inflicted on Custer's men. But in thrashing the Seventh Cavalry, the Indians sealed their own fate. Within a year the Army hounded most to the hated reservations. Like the vanishing buffalo, their way of life was no more."

In contrast to the Custer cultists who revere the name of their hero, many of today's Native Americans despise it. They dislike even the name of the Custer Battlefield National Monument; after all, it was they who won.

"Sitting Bull National Monument would be more appropriate," says Caleb Shields, Sioux tribal councilman at the Fort Peck Reservation in northern Montana, "or Little Bighorn National Monument Custer is no hero of ours."

Sitting Bull, preeminent leader of the seven bands of Western Sioux Indians and revered medicine man, had a prophetic vision of the defeat of George Armstrong Custer's troops at Little Bighorn. In spite of his later billing as "Custer's killer" Sitting Bull did not fight in the famous battle.



Battle of the Little Bighorn
June 25 1876

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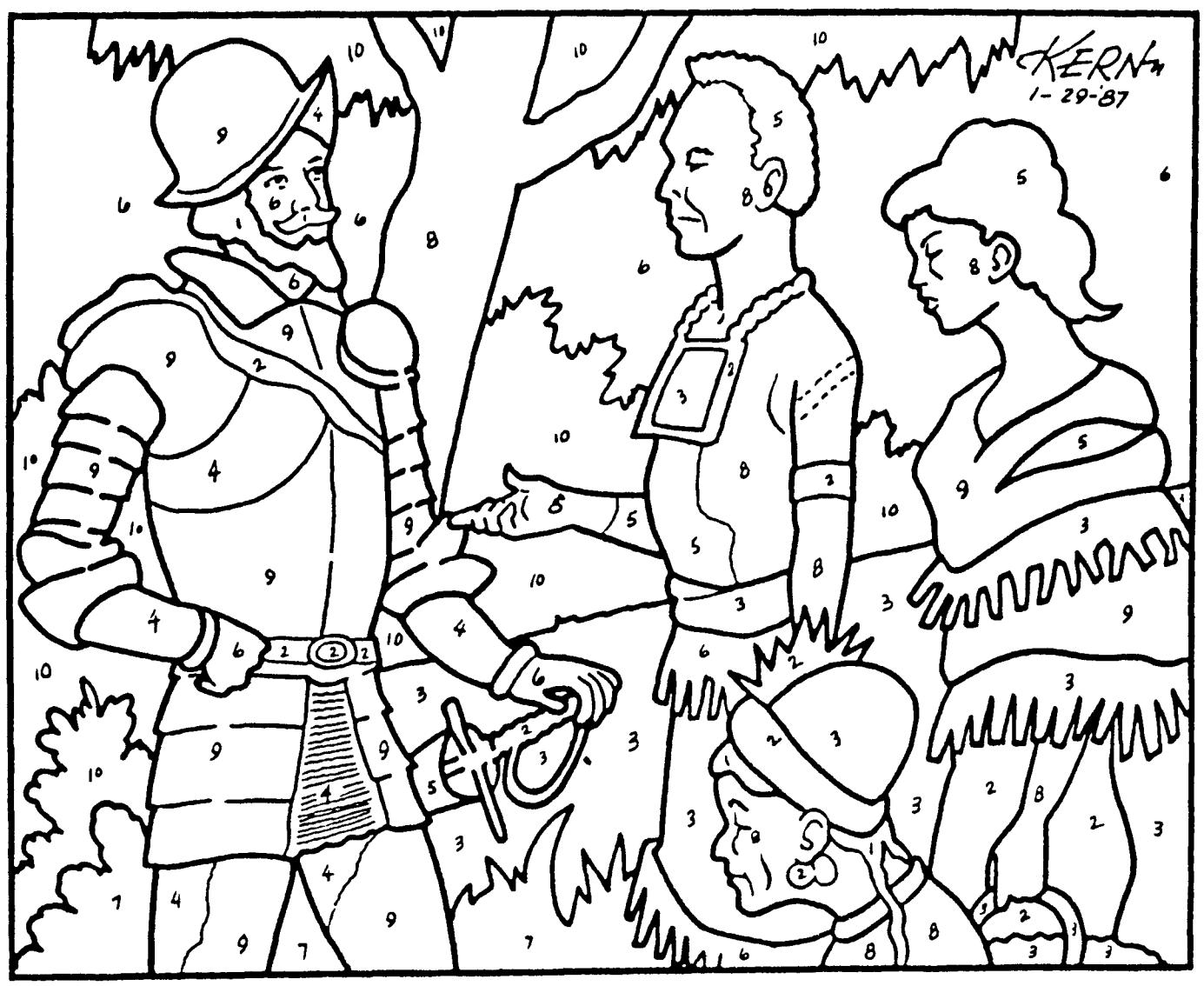
2.	RED	7.	GREEN
3.	YELLOW	8.	LT. BROWN
4.	DK. GREY	9.	LT. GREY
5.	BROWN	10.	LT. GREEN

BARTER: TRADING WITHOUT THE USE OF MONEY IS CALLED BARTER. IT WAS USED BEFORE MONEY WAS INVENTED. IT IS STILL A COMMON WAY OF TRADING IN SOME CIVILIZED COUNTRIES TODAY. THE EARLY EXPLORERS GAVE THE INDIANS BEADS IN EXCHANGE FOR FOOD. THE EARLY SETTLERS IN AMERICA TRADED LAND FOR A SHOTGUN AND A YOKE OF OXEN.



THE MICRO WAY

LANI BLOOMER

1986 Index

"I'm going to get organized!" That's one of your New Year's resolutions, right? Well, if so, clip today's index for the 1986 Micro Way columns. File your clippings by date and you'll be able to find them in an instant.

The easiest way to file your clippings is to glue them to a piece of looseleaf paper and keep them in a ring binder. Write the date along the right hand side of the paper so you can see it easily when flipping through.

If the column doesn't all fit on one page, you can cut and paste to reshape it. Or, a faster way is to glue the main part down, and just fold up the extra. It can be opened up to use when needed.

Once you have a notebook set up, it only takes a minute or two to clip and glue the column in place each week. (This sure beats digging behind the freezer or in a shoebox!)

The Micro Way 1986 Index

January 4: Using a browning grill

January 11: Browning grill recipes: eggs, liver'n onions, cheese sticks

January 18: Superbowl bash: pizza fondue, bacon sticks

January 29: Microwaving candy: fudge, peanut brittle

February 1: Sausage suppers

February 8: Quick breakfast treats: cherry coffee cake, oatmeal muffins, jammed up muffins

February 15: Microwaving seafood and fish

February 22: Hot sandwiches

March 8: Winter vegetables: glazed carrots, red cabbage and apples

March 15: Candy Easter eggs

March 22: Microwaving ham

March 29: Tips for frozen convenience food

April 5: Macaroni and cheese, lasagna

April 12: Microwaving puddings: tapioca, rice, mixes

April 19: Kids cook dinner: hot dog casserole, crunchy champ cookies

April 26: Quiches: ham and potato, mushroom

May 3: Cookbook reviews

May 10: Drying flowers

May 17: Microwaving scratch cakes: snickerdoodle cake

May 24: Stuffed potatoes

May 31: Cookies: peanut kisses; chocolate crackles

June 7: Pineapple upside down cake

June 14: Microwave know-how quiz!

June 21: Remedial microwave class (knowing what went wrong!)

June 28: Basic Microwave Techniques

July 5: Blanching vegetables

July 12: Picnic shortcake

July 19: Pizza roll (meatloaf)

July 26: Cold salads: ham and potato; barley pilaff

August 2: 1985 Micro Way favorites: cheese manicotti, pizza cookies

August 9: Nutritious snacks: peanut longs, marble bars, cereal crunch

August 16: Peach streusel cake, peach cobbler

August 23: Picnic salads: Italian chicken, copper pennies

August 30: Reheating tips

September 6: Eggs: poached, egg sandwiches

September 13: Mashed potatoes

September 20: Microwaving gravy

September 27: Apple crumb pie, quick apple coffee cake, applesauce

October 4: Quick casseroles: pizza, goulash

October 11: Microwave Times magazine favorites: Mexican manicotti, chicken and broccoli supreme

October 18: Microwaving Roasts

November 1: Pudding cakes: brownie; pineapple orange

November 8: Sweet potatoes and apricots, stuffed squash

November 15: Buying a microwave

November 22: Turkey tetrazzini, sweet and sour turkey

November 29: Curried fruit, baked apples

December 6: Holiday cheesecake

December 13: Microwave utensils and gifts

December 20: Cranberry Nut Bread

December 27: Pork and Sauerkraut

Are you missing a column you'd like? If your local library subscribes to *Lancaster Farming*, you should be able to get copies there. If not, I can send you a reprint of the column(s) you're missing, but I must charge $2 per copy to cover my costs.

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Sugar Intake Increasing

MEDIA – Americans are eating more sugar than ever. Since 1960 our yearly intake of sugar has jumped 22 pounds. According to Delaware County Extension home economist, Maryetta Dorricott, one reason for the increase is the use of sugar in processed foods. Another reason is simply that our sweet tooth has gotten bigger.

Americans are consuming more soft drinks, more desserts, more sweet snacks. This increase has many people concerned because sugar is not very nutritious. It's high in calories...but it provides almost nothing in the way of vitamins, minerals or protein. Sugar is also thought to contribute to the development of cavities.

If you want to cut the amount of sugar you eat, the first step is to learn the many names it goes by. Sucrose, dextrose, fructose, corn syrup, corn sweetener and natural sweeteners are all sugar by another name. Once you know these, you can read labels and avoid products with a lot of added sugar.

Some other ways to cut down on sugar are..to drink fruit juices or water instead of soft drinks..buy fruits packed in their own unsweetened juice instead of heavy syrup..and substitute fresh fruits, nuts or raw vegetables for sweet snacks.

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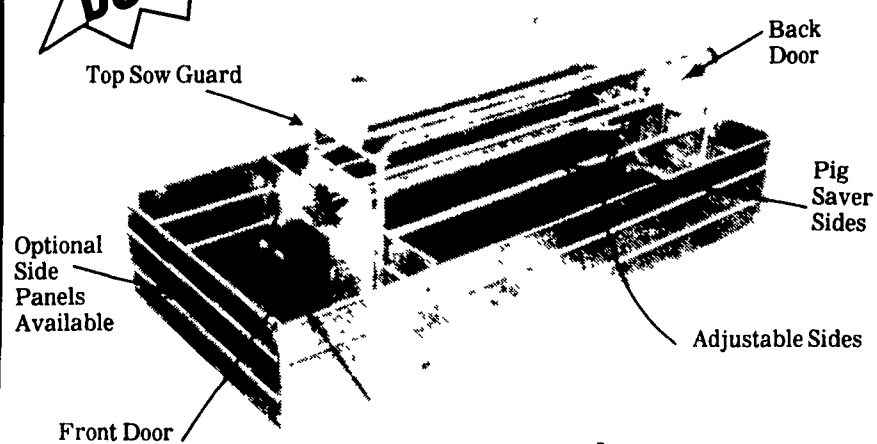

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Cecile Midler, Make It Yourself With Wool Contest director, left, and Gwendolyn Gray, Pa. Lamb and Wool Queen, right, congratulate winners in the state finals. The winners are, from left, Lillian Arnold, adult category; Jackie Heald, senior category; Judy Ann Rhoades, junior category; and Erica Murgos, pre-teen winner.

Winners Named In Make It Yourself With Wool Contest

BY BETH NESBIT
Indiana Co. Correspondent

SOMERSET — The setting is The First Annual Keystone Shepherds Symposium, the contest is the Make It Yourself With Wool state finals. During a luncheon 16 district winners competed for the grand prize, an all-expense paid trip to the national finals.

Winners of the district competition represent four different age categories: pre-teen, junior, senior and adult.

In the pre-teen division Erica Murgos, district 4, Johnstown, Cambria County, captured the first place award. Gayle Clyde of Butler County received honorable mention.

Judy Ann Rhoads, district 4, Berlin, Somerset County, was the first place participant in the junior division. Barbara Babcock, Luzerne County, was the second place recipient.

Jackie Heald, district 1, Landenberg, Chester County, received the senior division honors, with Amy Patton standing in second. Amy is a Washington County resident.

In the adult category Lillion Arnold, district 5, Vandergrift, Armstrong County, was the winner, while Robin Dunn, district 5, was second.

The grand prize winner was the senior division winner, Jackie Heald. Jackie, a student at Kennet High School, was sporting this fall's hottest color, turquoise. Her full-lined tailored suit is made of 100 percent wool from G Street fabrics. Her jacket included a notched collar, pockets in the front seam, a bound buttonhole and an extra button.

Her gathered skirt consisted of a side seam pocket, and Hong Kong seam finishes. Jackie constructed a long-sleeve blouse made of a liberty of London paisley print and a 100 percent silk tie to accent this suit.

Judy Ann Rhoades was the first runner up and is eligible to compete in the national competition in Nevada. Judy won with a Vogue designer suit. Her semi-fitted jacket has pleated sleeves set into extended shoulders, topstitching and a slim line of buttons used for accent. From gathers at the waistband, the flared skirt falls softly to the new longer hem length. Judy is a 15-year-old sophomore at Berlin-Brothersvalley High School.

Both girls will travel to Sparks, Nev., Jan. 21 to 24, to compete for scholarships, monetary prizes, gifts and sewing machines by Bernina.

All of the winners received one and one-half yards of pure wool from Pendelton wool. A variety of other product awards were supplied by Pellon, McCalls, Butterick, Coats and Clark, Sunbeam, Stacy Fabrics, JoAnn Fabrics, Imagination Magazine and Weiss.

Stillwagen Is Finalist In Ideas Unlimited Contest

Frederick H. Stillwagen, left, Allentown, accepts the Pennsylvania Association Award at the National Vocational Agricultural Teachers' Association convention from Curtis Graham, coordinator-program development, Ruritan National, Dublin, Va. Pennsylvania was one of six finalists in the Ideas Unlimited Contest held during the convention in Dallas Texas, Dec. 5 to 9. Stillwagen's region winning entry was "A Fund Raiser...Fruit Basket."

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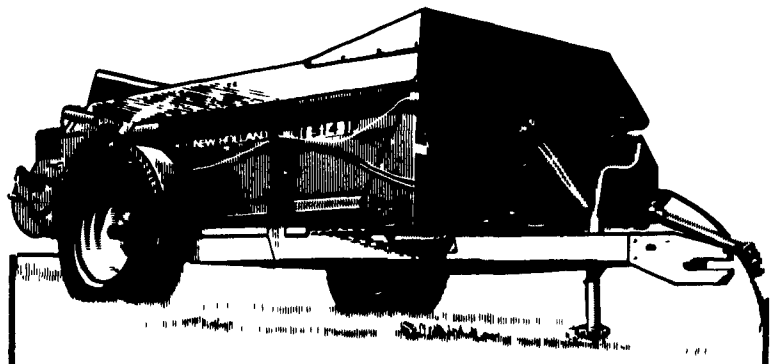

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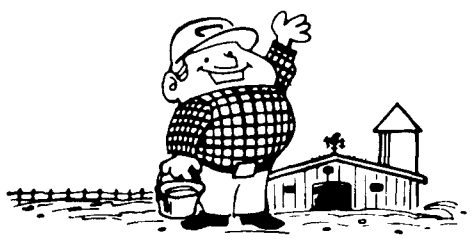

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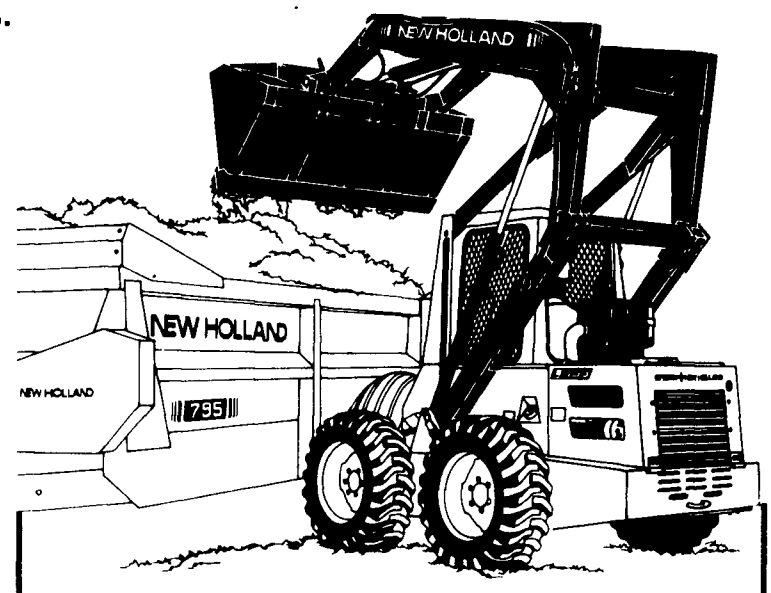

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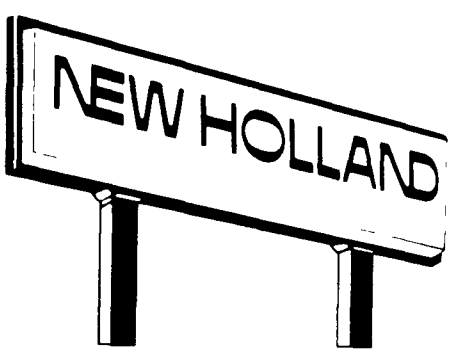

Farm Women Societies

Lancaster Society 3

Lancaster Society 3 met Dec. 20 at the UCC Church, Lincoln. Hostess Doris Miller read the Christmas story for devotions and the group sang Silent Night.

Irene Eberly reported that 34 members enjoyed their trip to Winterthur. Several members sang Christmas carols for elderly society members and residents of the Denver Nursing Home. Each member received a cyclamen plant and the society presented a Norfolk pine to the nursing home. Glachy Paul served the carolers lunch.

Mary Kathryn Weaver was accepted as a new member. Society members presented a pewter mug to Kimberly Bell, infant daughter of Linda Bell.

Members will play bingo at Conestoga View Jan. 15.

Florence Vaitl reported on the executive board meeting, presenting suggestions for the county project.

Program for the evening was the play "Three Women of Bethlehem" performed by society members. Allegra Leininger on the marimba and Evelyn Shupp on piano played Christmas songs for members to enjoy.

The next meeting will be held Jan. 17 at the home of Vivian Stauffer.

Lancaster Society 5

Members of Lancaster Society 5 met recently at the home of Mrs. Grace Stein, Manheim. Members spent the afternoon playing games and exchanging gifts.

Twenty-two members attended the meeting and enjoyed delicious refreshments.

Several delegates will be attending the State Convention in Harrisburg, Jan. 12 and 13.

Lancaster Society 6

Members of Lancaster Society 6 met recently for a Christmas covered dish dinner at the Elizabethtown Church of the Brethren. Sara Myer led devotions.

The program consisted of a film strip titled "Dickens Christmas Carol," a carol quiz and a Christmas carol sing.

Lancaster Society 8

Members of Lancaster Society 8 met at the home of Helen Mariner for their December meeting. Sixteen members attended. Molly Baer led devotions and Mrs. Mariner's grandchildren presented musical selections.

Anna Mae Ney was installed as a new member.

Helen Mariner, Anna Keener and Patsy Werfel served as hostesses.

The next meeting will be held Feb. 11 at the home of Arline Witman and Mary Sarver at 2 p.m. January Conference reports will be presented.

Lancaster Society 11

Members of Lancaster Society 11 met Dec. 18 at the home of Helen Wagner with society officers serving as hostesses.

Mary Swarr led the roll call and members saluted the flag. Twelve members answered roll call by telling of a Christmas custom from their childhood.

During the business session, reports were presented. Three delegates were elected to attend the State Convention Jan. 12 and 13 in Harrisburg. 1987 program books were distributed.

For the program, Helen Wagner conducted a quiz on the events surrounding the birth of Jesus as recorded in the Bible.

The next meeting will be held Jan. 29 at the home of Grace Ann Chase.

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Red Meats Are Nutrient Rich Diet Additions

NEWARK, Del. – Despite concerns about cholesterol and the popular push for more poultry and fish as main dishes, it's still not medical madness to eat red meat.

"Meat is important in our diet because it is nutrient rich," says Dr. Sue Snider, University of Delaware extension food and nutrition specialist. "Red meats like beef, lamb, pork and veal contribute complete proteins to our diet. Complete proteins are those that contain all the amino acids that our body can't make."

In addition, Snider says, red meats provide significant amounts of B-vitamins including thiamin, riboflavin, niacin and vitamin B12. Meats also furnish a beneficial amount of iron and zinc.

"The iron in meat, called heme iron, is easily absorbed by the body and helps it use the non-heme iron found in plant material," she says.

The specialist says that most cuts of trimmed meat have less than 200 calories and contain less than 100 mg of cholesterol for a three-ounce cooked serving. "Red meats in moderation can even be included in a low-cholesterol diet," Snider says.

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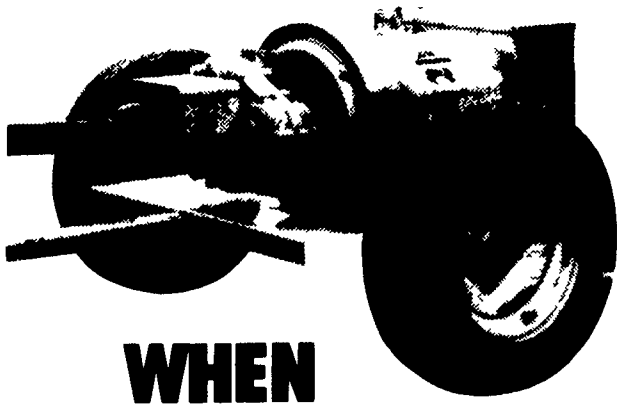

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Have You Heard?

By Doris Thomas
Lancaster Extension
Home Economist

Families Can Cope With The Stress Of Change

Families may not be able to predict the changes they will face in the future, but there are ways to help them cope with the stress those changes cause.

Patience and time are required to successfully cope with change. We have to improve areas of weakness within the family so that when change is required, the family system will respond and adapt rather than crumble.

People can experience four kinds of change, each causing differing degrees of stress.

Expected and wanted changes, like marriage or a vacation, cause minimal stress. Expected and unwanted changes, like the physical changes of growing older or paying taxes, are more stressful. Unexpected changes that are pleasant are still stressful, but easier to take; these include promotions at work or inheriting a lot of money.

Probably the hardest to cope with are the changes that are unexpected and unwanted, like the death of a loved one, a tornado that damages property and lives, or an accident.

The amount of stress to a family caused by a change depends on the number of stressful events occurring. Usually, one stressful event can be handled. But if several occur simultaneously this is called stress pile-up and can be difficult to handle.

It is also more difficult to cope with a stressful event that lasts a long time. Losing a job and not finding another one and a long-term illness are examples of this type of stress.

Building family strengths before and after changes occur will help families cope with the stress those changes bring.

Family members should concentrate on individual strengths and family strengths rather than weaknesses, and in times of stress that's hard to do.

In times of stress and change the family needs to keep the lines of communication open. They need to make time to talk to each other, listen to each other and work out the difficulties. From this they may get ideas for solving the problem.

Staying flexible about who does what and when is a key factor in coping with shifting times of change.

Finally, families can plan strategies to cope with some crisis before they occur. If possible, anticipate what changes you may encouter, such as a death in the family, and adapt before they happen.

Is There A Low-Fat Cheese?

For many health-conscious people who wish to lower their fat intake, the hardest choice is to reduce their cheese intake. Besides having appealing variety, great taste, compelling convenience which makes it an excellent sandwich and snack food, and social acceptability with wine, cheese is a reasonably good source of calcium and protein. Unfortunately, between 65 and 75 percent of its calories come from fat. A typical 1.5 ounce serving, which is equivalent to two slices of American cheese, contains nearly the same amount of fat as 3.5 pats of butter, and most of it is saturated.

What about low-fat cheeses? Well, the low-fat natural cheeses are not really very low in fat. Part-skim mozzarella contains only one-fourth less fat than its normal counterpart, so only 55 percent of its calories come from fat. Part-skim ricotta contains 10 grams of fat per half cup instead of the 16 found in the full-fat product, which means that it is not exactly low in fat.

Low-fat natural cheese is actually hard to make since fat is what gives cheese its consistency. Processed cheeses, in which water is added to a cheese blend, are lower in fat. Many of the "lite" cheeses, for instance, contain only 3 to 4 grams of fat per 1.5 ounce serving. Their drawback is their sodium content. That 1.5 ounce serving will contain from 340 to 700 mg of sodium, a significant amount if you are concerned with keeping your sodium intake to the 3300 mg recommended by the National Academy of low spoilage rates, so they are handy for brown-bag lunches and travel well

If, like most people, you like cheese and still want to watch your fat intake, eat small servings or eat it on days when you are eating an otherwise low-fat menu. Save cheese for special-occasion menus. and if you use it when cooking, pack it loosely when measuring and do not add that "extra" for good measure

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Smithport Resident Honored For 85 Years Of Grange Membership

HARRISBURG — Beatrice Day, a resident of Sena-Kean Manor in Smithport, has been recognized by the National and Pennsylvania State Grange for a distinguished accomplishment in her life — 85 years as a Grange member.

National Master Edward Anderson congratulated Miss Day on becoming an 85-year member of the Grange. "It is my pleasure to extend to you recognition and a 'thank you' for 85 years of dedication, time and talent in the faithful service of our Order," he wrote.

Miss Day, who turned 99 Dec. 16, joined the Grange in 1901 at the age of 13. The teenager and her family began when the Valley Grange first was organized. Since then, her home grange has merged with Norwich Grange.

Miss Day was the secretary for her grange for 50 years. She recalled her fondest memory of the Grange. "I received the 7th Degree at the national convention in Ohio. That was a fine memory." However, Miss Day could not recall the year in which she received the Degree. (The 7th Degree is the highest level of membership a Granger can reach.)

Granger Day regreted not being able to continue her active involvement with the Grange. However, she continues to read the Advocate, the Pennsylvania State Grange newsletter, and keep abreast of the Grange activities.

"I have to depend on others to take me to the meetings. On Nov. 1, I went to a meeting," said the longtime Granger.

That she did. Ruth S. Carlson, Pomona Grange lecturer in Kane, spoke highly of Miss Day. "She was remarkable," said Mrs. Carlson. "In fact, at the meeting when they announced who she was and her list of involvements they made a mistake. A mistake Beatrice quickly corrected!"

The Granger recalled the fond times she spent with her family at the Grange. "We met in homes and other local granges before we owned our grange hall. We would go to the Grange to have fun.

"There were dances. The young folks played games and square danced." She named games such as the needle's eye and drop the handerchief. "There was no spin the bottle," she laughed.

In her spare time, the 99-year-old enjoys reading. "I read a lot, books, papers, anything."

Upon receiving the letter from Master Andersen, Mrs. Carlson presented Miss Day with a flower. The State Grange presented her with a pin thanking her for the many years of service.

Not many people can boast about 85 years as a Grange member but 99-year-old Beatrice Day can. Miss Day, left, is full of Grange pride as she accepts a flower presented by Ruth S. Carlson, Pomona Grange lecturer of Kane.

Diet Therapy For Arthritis

Diet therapy for arthritics has been considered fringe medicine, but recently, clinical test results have begun to appear in the scientific literature, indicating a new interest in this area.

According to Maryetta Dorricott, Delaware County Cooperative Extension home economist, the general concensus is that dietary factors do not cause rheumatoid arthritis, but they may play a role in promoting or relieving the symptoms once the disease is established. This may be important news to the nation's six to eight million Americans who have arthritis.

In a recent study reported in The Lancet patients were placed on an elimination diet made up of only those foods unlikely to cause an allergic reaction. Possibly allergy-causing foods were reintroduced one at a time. Foods that produced an allergic reaction then were eliminated from the person's diet.

The findings showed those given dietary treatment improved significantly while those receiving a placebo treatment did not. No specific dietary component was reported to have a consistent effect. Patients apparently responded individually to a variety of dietary changes. Why the different responses? Possibilities include actual reduction of food intolerances, changes in food absorption in the intestine, weight reduction and changes in prostaglandin synthesis.

Although more research needs to be done, rheumatoid arthritis patients may wish to seek the help of a reputable physician or dietician to test the effects of dietary manipulation on their symptoms.

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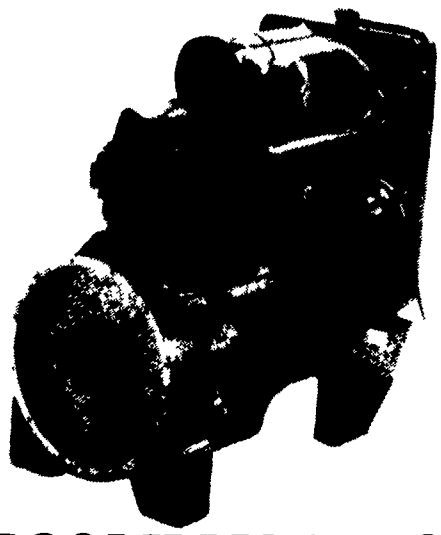

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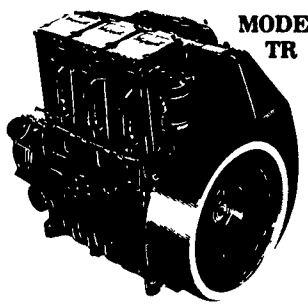

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Purge Pantry Shelves Of Unwanted Pests

NEWARK, Del. – Homeowners may be disconcerted to discover beetle grubs in their grits or moth larvae in the cat's kibble, but these unsavory "pantry pests" usually come from warehouses rather than home or supermarket shelves.

"Pantry pests usually enter the home in products purchased from the supermarket, so people tend to blame the retail stores," says Mark Graustein, University of Delaware extension specialist in entomology. "But most of the egg laying occurs when the unpackaged product is stored in bulk in a warehouse."

Graustein says that since the insects are in the egg or early larval stages when the product is packaged, there is no evidence of the pests. Once packaged, however, the insects continue their development, the population increases and real damage occurs to the food product.

"After they are fully grown and finished feeding, the larvae can bore their way out of the package," Graustein says. The holes may make it appear that the infestation started in the homeowner's pantry.

Only the most unsanitary conditions with lengthy storage would allow the spread of insects in a supermarket, Graustein says, because once packaged, stored foods are reasonably well protected from insect pests.

The most prevalent pantry pests in Delaware, based on telephone calls to county extension offices, are the Indian meal moth, the sawtoothed grain beetle and the flour beetle. They can infest any stored food but seem to prefer dried fruits, candy, moist and dry pet foods, cookies, flours, crackers and processed baking products.

Graustein says that cigarette and drugstore beetles also appear in Delaware and feed on spices, tobacco products and dried beans and peas. Other pests in this general category can infest such unlikely items as dried flower arrangements, ornamental gourds, book bindings and cardboard boxes.

"We've even found certain of these pests in insulation – the kind with a vapor barrier glued to the fiberglass," the specialist says. Less common to the area, he adds, is the pharoah ant, which can enter the smallest of places and crawl under a snugly tightened lid.

The first step in controlling pantry pests is to toss out all obviously infested items. "Identifying these items is difficult because it's hard to tell if eggs have been deposited in apparently 'clean' products," the specialist says. "In general, any food item that could have been entered by an adult insect should be considered suspect."

When looking for pantry pests, don't overlook ornamental items such as spice wreaths or floral arrangements. These can be heated in the oven for at least 30 minutes at 130 degrees to kill insects or eggs. Large items require time to heat through completely. To avoid excessive moisture loss while heating, place several layers of moistened newspaper on the shelf below the item. If the product cannot be heated, it can be placed in a freezer set at 0 degrees for at least seven days.

Once infested materials are removed, a thorough vacuuming and cleaning of the storage area with detergent or disinfectant should be all that is necessary for control.

"If a problem persists, some residual insecticide may be applied," says Graustein. To prepare for this, empty and clean the cabinet shelves. When the shelves are dry, spray upper and lower corner surfaces to force the insecticide into seams, cracks and crevices. Do not spray food, dishes or utensils, and cover the shelves with shelf paper before replacing food and dishes.

The insecticide used should list one of the above mentioned pantry pests on its label and should include one of the following active ingredients: diazinon, propoxur (Baygon), chlorpyrifos (Dursban) or resmethrin (SBP-1382).

Graustein has one final suggestion. "Don't stock up on stored food products for at least a month after treating. If indeed you are bringing pantry pests home from your favorite supermarket, you will have less food to throw away and nearby items are less likely to become infested."

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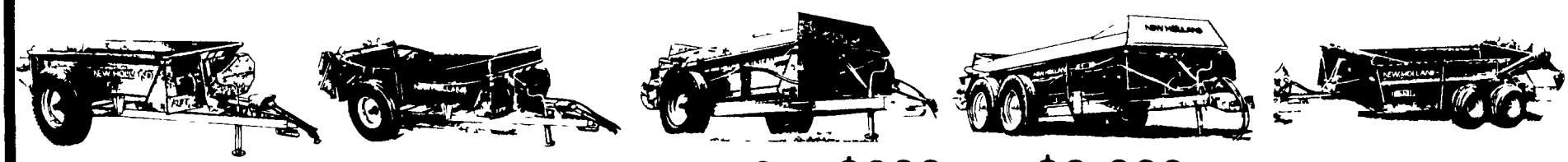

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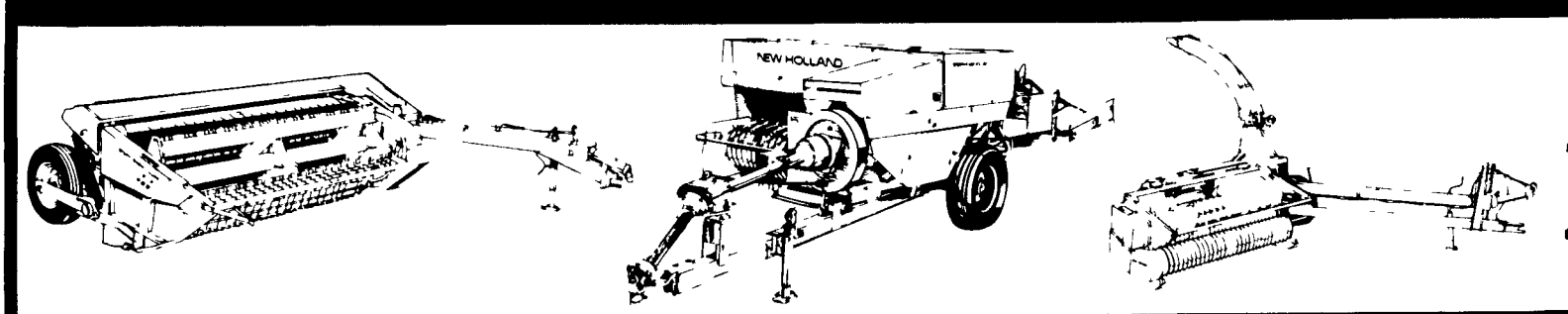

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Sunshine Vitamin Isn't Just Kid Stuff

WASHINGTON – Vitamin D deficiency among the elderly, especially those who live in northern climates, may be a major unrecognized public health problem, an endocrinologist at the U.S. Department of Agriculture's Human Nutrition Research Center on Aging reports.

"They are not getting enough of the vitamins from their diets– especially milk– or from brief exposures to summer sun," said Dr. Michael F. Holick. "Sun exposure should be brief," he cautioned, "to avoid risk of skin cancer." USDA's Agricultural Research Service funds the center, based at Tufts University, Boston.

Vitamin D helps the body absorb calcium from the intestinal tract and maintains blood levels essential for proper mineralization of the bone, Holick explained. Deficiency in adults leads to softening of the bone, or osteomalacia, compounding the problem of bone loss, or osteoporosis, in the elderly.

"A vitamin D deficiency in people afflicted with osteoporosis may significantly increase the risk of bone fractures," he said.

In a study of 142 patients entering Boston's Massachusetts General Hospital with fractured hips, 30 to 40 percent had little or none of the circulating form of vitamin D in their blood, said Holick. He said that other studies, both in the United States and Great Britain, indicate a similar 30 to 40 percent of men and women with hip fractures are vitamin D deficient.

People begin losing bone mass during their thirties, leading to a weakened, sponge-like bone structure in later years. Although osteoporosis is accelerated in postmenopausal women, "All people have it sooner or later," he said.

"The major cause of age-related vitamin D deficiency is a decrease in milk consumption," Holick said. "Relatively few other foods contain vitamin D." He said a substantial number of elderly develop an intolerance to milk, and others believe there is no need for milk– that it's only for children.

Four 8-ounce glasses of milk a day provides the Recommended Daily Allowance of 400 international units of vitamin D, he said. Depending on the fat content, 32 ounces of milk also supply about 1,200 milligrams of calcium– or one-third more than the RDA for calcium for men and women over age 18.

People who can't tolerate milk should take a vitamin D supplement or spend more time in the summer sun, Holick said. As people age, the ability of sun to stimulate the manufacture of vitamin D in the skin progessively decreases. And, in northern latitudes, such as Boston, vitamin D synthesis stops completely in the winter, he said.

To get the benefits of summer sunlight and minimize its detrimental effects, Holick recommends light-skinned elderly people restrict exposure to 5 to 10 minutes around midday in June when the sun's rays are most direct. Exposure can be longer when the angle of the sun is lower.

Dark-skinned people, however, require five to 10 times longer in the sun, depending on the amount of pigmentation, he said. In laboratory tests, it took a dose of radiation that would produce a severe sunburn in Caucasians to increase vitamin D levels in black skin.

Holick also found that protective lotions called sunblocks are true to their name. The products with a high protection index completely prevent the skin from producing vitamin D.

Moldy Food – Dangerous and Distasteful

NEWARK, Del. – Moldy rye bread is often suggested as the cause of the colonial Salem witchhunt hysteria. Moldy peanut meal caused a massive poisoning of farm animals in England in the 1950s. And moldy overwintered grain eaten by some Russians during World War II caused a surprising outbreak of an oft fatal blood disease.

The culprit in all these cases is the potentially hazardous substances produced by molds called mycotoxins. The word comes from the Greek "mykes" for fungus and the Latin "toxicum" for poison – literally fungus poison.

Because molds can grow on a variety of substances and under a diversity of heat and moisture conditions, most foods are susceptible to invasion by molds during production, processing, transport or storage. If mold grows, there is a potential for mycotoxin production, says Dr. Sue Snider, University of Delaware extension food and nutrition specialist.

Perhaps the most widely known and dangerous of the mycotoxins are the aflatoxins. In fact, aflatoxin B1 is one of the most potent carcinogens known to man, says Snider.

The items most susceptible to aflatoxin contamination in the U.S. have been peanuts, corn and cottonseed. But the toxin has been found in such processed and prepared foods as cheeses, cooked meats, ham, salami sausage, dry beans and even refrigerated or frozen pastries.

Because no safe tolerance levels have been found for any of the mycotoxins, the FDA has set what it considers to be practical limits for aflatoxins in foods and seeds. Most U.S. food processors have also established rigorous programs to monitor aflatoxins in their raw materials and prevent their presence in finished products. But the wise consumer should be aware of the potential dangers of moldy foods and take steps to prevent molds from forming on food at home.

"Proper storage is really the most important factor," Snider says. "Lower temperatures tend to retard mold growth, so if you have a lot of bread, for example, freezing is the best thing to do with it."

Not all molds are dangerous, says the specialist. In fact some molds are used in the production of foods such as blue cheese. However, if a food has an uncharacteristic mold growth on it, it should be discarded.

"People used to think they could just cut off the mold," Snider notes. "But part of the mold can grow deep within the food and is not visible. So just cutting off an outside layer of mold isn't a safe practice."

If an item purchased from a store shows mold, Snider suggests that you return it to the distributor for replacement or ask for your money back.

SULBRA DHIA
November 1986

Name	Breed	No Cows	% Days in Milk		Lbs. Milk	Lbs Fat
D & D Hottenstein		3	64 5	85 2	19 747	729
Joan M Woodhead		3	33 4	86 1	18 986	715
Raymond Norconk		3	42 8	86 5	20 181	698
Richard R Higley		3	87 3	86 1	17 806	697
Lambert Farms		3	136 0	90 2	19 121	692
John&Marvin Brown		3	47 1	83 6	17 759	671
Bobwood Acres		3	45 1	90 7	19 808	650
William B Hart		3	86 6	88 7	17 944	639
Ronald Hembury		3	100 0	86 4	17,295	608
Mount Top Vue Fm		3	70 8	85 1	15 819	580
Earl&James Warburton		3	88 8	88 9	15 932	568

Completed lactations of 850 pounds or more of fat

D and D Hottenstein Tavia	3	4 02	305	29 177	3 9	1124
William B Hart 95	3	4 06	305	22 611	3 8	864
Richard R Higley Seleta	3	4 03	305	20 282	4 2	854

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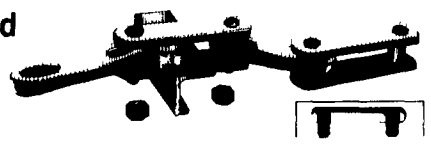
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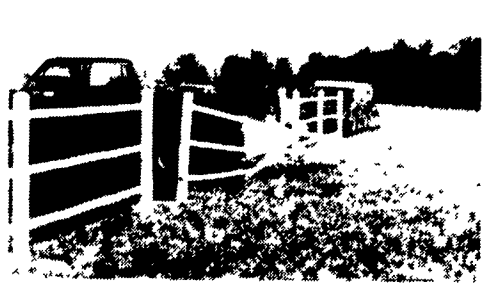

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2 - Farm Equipment Wanted
3 - Silos and Unloaders
4 - Building and Supplies
5 - Grain Equipment
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The following categories are available for your classified advertising, in Section B. Deadline-Wednesday afternoon at 5 of each week's publication.

7 - Livestock Equipment
8 - Cattle
9 - Horses & Mules
10 - Sheep & Goats
11 - Swine
12 - Artificial Breeding
13 - Hog Equipment & Supplies
14 - Poultry & Supplies
15 - Feed & Seed
16 - Fertilizer
17 - Plants
18 - Fruits & Vegetables
19 - Nursery
20 - Lawn & Garden
21 - Services Offered
22 - Custom Work
23 - Help Wanted
24 - Situations Wanted
25 - Business Opportunities
26 - Household
27 - Pets
28 - Lost
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30 - Computers
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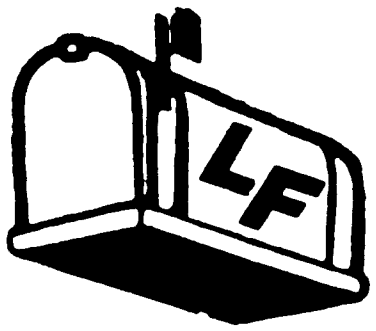

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16	4.64	9.28	11.04
17	4.93	9.86	11.73
18	5.22	10.44	12.42
19	5.51	11.02	13.11
20	5.80	11.60	13.80

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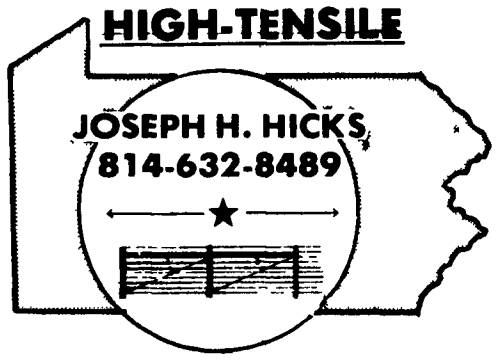

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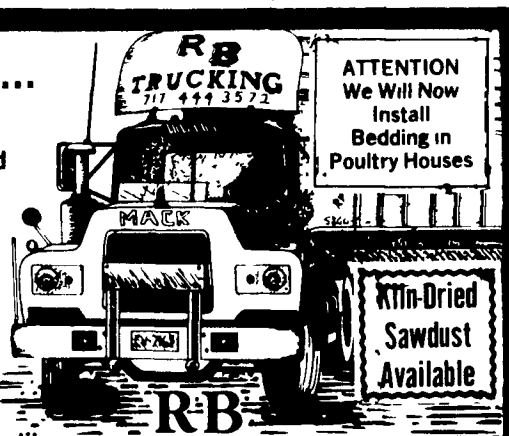

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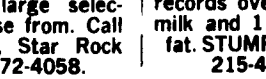

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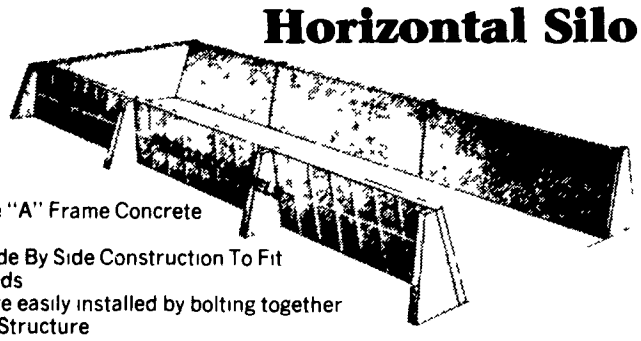

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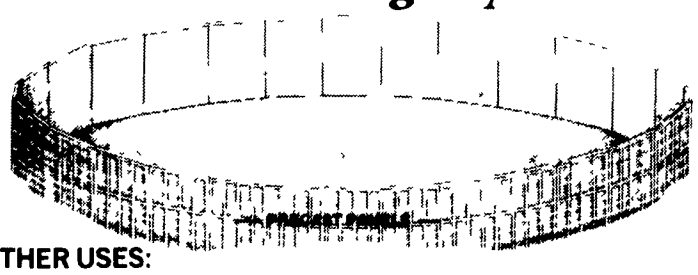

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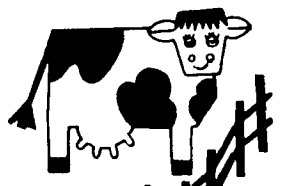

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Four registered Guernsey heifers, high bloodline. Two due January, two due February. 215-536-7523.

REG. HOLSTEIN SERVICE AGE BULLS
All are sired by the top A.I. bulls of the breed. Many from high record dams, all bulls are home raised w/a large selection to choose from. Call John Barley, Star Rock Farms, 717-872-4058.

For Sale: 50 Springing & Bred Holstein heifers, ⅔ vaccinated. 717-295-3137 or 717-394-5573

For Sale: Angus cows bred to calve late spring. York County, 717-229-2755.

REGISTERED ANGUS* Big, lusty heifer and bull calves. Bred cows, too. Watts Logan Spring Farm, Bellwood, PA 16617-0010 814-742-7476 or 742-8118.

Registered Angus Cow w/August heifer calf at side, and rebred, $700. 215-536-4190

Registered Holstein Bulls, Service Age, good records. 717-786-3591

Registered Holstein bulls, 1 year old and younger. Out of dams with records to records up to 28,000 milk and up to 1100 fat Stump Acres, 717-792-3216, York County.

Registered and Grade holstein cows 717-673-5684.

Service age registered Holstein bulls by Pete, Star, Astronaut, Glendale, Chief and others. Dams classified Very Good with records over 29,000 lbs. milk and 1,195 lbs. milk fat. STUMPLAND FARM 215-488-1965

8 CATTLE

12 Holstein heifers due January and February. 215-766-7336.

30 holstein cows, home raised, 18,000 average, 7% test. D.L. Stoltzfus, 135 Churchtown Rd., Narvon, PA 17555.

30 Reg. Guernsey Heifers, all ages. 301-833-1847.

36 cows, all 1st & 2nd lactation, milking 58 lbs. with 3.9 test. 717-624-4076 between 5 & 6 a.m. or 10 & 11 p.m.

Attention Cattle Feeders! I have listings of feeder cattle fresh off farms they were raised on. Contact Denzil Heishman, 703-465-5785.

Buyers & Sellers of Livestock -- Be sure to check the advertisements for cattle in the Lancaster Farming. You'll get results! 717-394-3047 or 717-626-1164.

COW CLIPPERS REPAIRED 45 years experience. Most obsolete parts available for Brown Stewart Clipmaster. All parts for black Sunbeam. Send UPS or PP, Hemps Electric Motor Service, 2319 Lloyd Road, Knoxville, MD 21758. 301-695-8066.

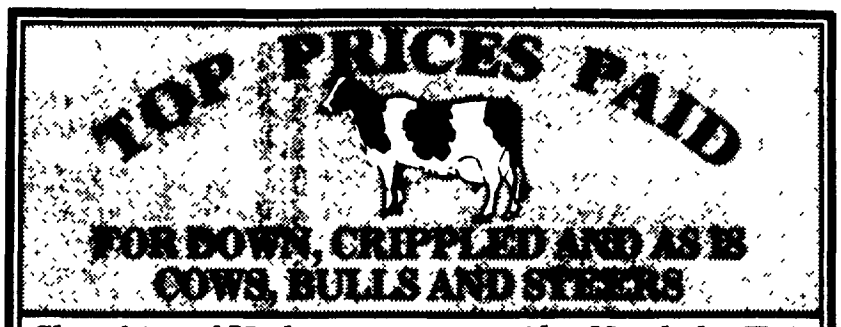
Five beef cows, 3 black Angus, 2 Hereford bred to Simmental bull. Will calve in April or May, $400 each. Cecil County, MD 301-658-5649.

FOR SALE: 14 Polled Hereford feeder calves, 10 bulls, 4 heifers, 300-600 lb. 215-696-1387.

FOR SALE: 36 Registered holstein cows. Must sell as a group. 1 Excellent, 14 Very Good, 10 Good Plus, 2 Good, 7 unclassified. 105.6 BAA RHA 19,500M 700F. Heifers also available. 814-443-3475 after 7PM.

FOR SALE: 3 Reg. Angus cows bred to Charolais bull. 1 Char. X Angus heifer calf. Dauphin Co. 215-598-0301.

WANTED: Open Holstein Heifers. Call 717-394-3099. Between 7:30 and 9 a.m.



Slaughtered Under Federal Inspection

Also Needed... Fat Cows, Bulls & Steers

All Paid On Dressed Weight

TOM MULVANEY
Livestock Trucking
(201) 454-4247

HANDLING:
Warren, Hunterdon, Sussex & Somerset Counties, New Jersey

IN PENNA:
Northampton, Lehigh & Parts of Carbon, Monroe & Schuylkill Counties

FOR SALE: Eight purebred black angus cows, five bred to New Yorker, three bred to Mainstream. Due to calve, six in April and two in May. Cows all sired by major bulls. Huntingdon Co. 814-684-1204.

FOR SALE: Five holstein heifers, ready to calve. Will trade for small heifers. 215-593-5665.

FOR SALE: Service age bull sired by Ned Boy. Dam 4th generation V.G. Chairman 3-1 21,444 milk 728 fat index +742. Gr. dam 228,496 milk 9,229 fat. Still producing next dam 176,511 milk 6,425 fat lifetime. Next dam over 163,000 lifetime. 717-899-6536.

FOR SALE: Three fresh registered heifers. Sired by Chairman, Bell and Valiant. Milking up to 70 lbs. a day. Dunwood Farms, 717-529-2950.

For Sale: (2) Scotch Highlander Heifers, 14 months, out of registered stock. 717-244-9409

For Sale: 2 yr. old, black 7/8 Chianina Bull, Sire Kentucky Colonel, $1,500. 301-829-0620

Wanted: Breeding age Holstein heifers, short bred & springing. Must be vaccinated. 717-295-3137 or 717-394-5573.

Wanted: Entire dairy herd and bred and springing heifers. Highest cash price paid. Reuben Greenberg, Inc., Columbus, N.J. 08022. Ph. 609-298-1021

Wanted:
Registered & Grade herd.
717-393-0930.

Wisconsin and Canadian Dairy Cows For Sale: 1st, 2nd, and 3rd calf. Fresh and close springers. Cash, or credit with down payment. Specialize in selecting cows for customers. Free delivery. Reuben Greenberg, Inc., Columbus, New Jersey 08022. Phone 609-298-1021."

WANTED TO BUY: In 814 area only. Dairy or beef cattle, have truck, cash at barn. Call after 10 p.m. or on weekends. 814-695-6553

For Sale: Five steers, 1 heifer, purebred Simmental Angus cross, average weight 625#, club calf prospect. Yellow house, 215-689-9168.

Ten registered Holstein cows, 4 VG, all stages, over 18,000M, 700F, Reg. heifer calves. Enjoyment Farms, 814-926-3669.

COZY COWMATS and HAPPY MOOMATS
VANCO
Call Collect
717-776-3494
RD 4, Box 300
Carlisle, PA 17013

Registered Holstein Heifers, Springers, Short Bred and Open Good Pedigrees.

DANIEL ALBRIGHT
717-789-3157

9 HORSES AND MULES

Ponies For Sale. Phone 717-768-8080.

WANTED: Mule colt either mare or horse or bred mare. 14 Hands or better. Anytime between now and late spring. Write: Walter T. Shaneybrook, 20734 Slab Bridge Rd., Freeland, MD 21053. 301-343-1477.

Would like to purchase harness, bridle & reins. Working type harness for animal average weight of 1,400 to 1,500 lbs. New or used, in good condition. Also wanted horse drawn wagons. 409-258-3093 or 713-869-3491. Ask for Bill.

Nice Reg. Quarter Horse Fillies for sale, 6 and 18 mos. old. 717-464-5131

MORITZ HORSE & STOCK TRAILERS
MORITZ TRAILER SALES
Frank Pierce
RD 1 - Box 360
Newmanstown, PA 17073
717-949-3246

55 ACRE DAIRY FARM NORTHERN PENNA.
* Pipeline, etc.
* 3 Bedroom House
* Good Producer

Reduced to the mid 60's
KINGSWAY REALTY
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Ask for Carl

DOWN COW & HORSE REMOVAL
for dog food
Monday thru Saturday
Free Pickup
Call Wayne Taylor
717-866-6289 or
215-286-9400
Lebanon, Berks, Lancaster & Chester Co.

11 SWINE

Tested Yorkshire Large Whites Service Boars. Delivery Available. Stern Yorkshires, RD2, Box 366, East Berlin, PA 17316. 717-292-4634.

Duroc, Yorkshire, Spotted Boars, Open Gilts and Bred Gilts. Calvin Lazarus and Sons, 4290 Bridge Street, Whitehall, PA 18052. 215-799-3375 or 3831.

FOR SALE: Registered Hampshire Boars, 8 months old, service size, both Sire and Dam sired by Artificial Insemination of Swine Genetics, Inc. Excellent mothering ability, and conception rate. Call 717-444-3232

FOR SALE-Yorkshire Service Boars. Elwood E. Houser, 2150 Quentin Rd., Lebanon, PA 17042. 717-272-5798 or 273-2921.

Registered Yorkshire (Large White) boars. Healthy, heavy boned, sound and meaty. Will deliver. George Smith, 814-224-2897.

Chester White, Spotted & Duroc Boars & Gilts for sale. Will deliver. James Parlett, RD2, Airville, PA 17302. 717-862-3610.

DUROC BOARS and gilts, production tested, certified meat type show winning stock. Bloodlines of the best in the U.S. Par-Kay Farm, Park F. Thomas, Beavertown, PA. 717-658-6544.

YORKSHIRE AND LANDRACE boars and gilts of all ages. Pseudorabies negative tested boars for sale at all times. Production tested, certified meat tested. Show winners with many carcass champions. Daily drive-in and drive-out service. Reno H. Thomas, Beavertown, PA 17813. 717-658-5821.

For Sale: Hampshire & Berkshire Boars & Gilts, service age, will deliver. Terry Bennecoff, 215-285-6582.

For Sale: Yorkshire Boars, sound & aggressive. Call Mark Raymond. 717-993-2450

If you have swine to sell or buy - check our swine column. It is read weekly by thousands. 717-394-3047 or 717-626-1164.

FARM FRESH QUALITY FEEDER PIGS FOR SALE
Fred Patterson
615-364-7050

FIRST THEN NOW
The Chicken
Seed Corn
The Hog

HYBRID BOARS AND GILTS FROM EAST COAST HOG SERVICE, INC.

Terminal & Maternal Sires:
Performance tested for gain, B.F., L.E., so you know their genetic potential.

Prolific Gilts:
Selected on litter size, confirmation, underlines, and growth rate.

We manage and maintain 7 breeding farms to serve your needs.

"Measure your success by using hybrid boars and gilts"

Depend On: East Coast Hog Service, Inc.
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Lititz, PA 17543
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1-800-223-4479 (Outside PA)

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MUST SELL
Registered Polled Herefords,
Cows, Calves, Heifers
3 yr. old herd bull Granite breeding.
Poor Health Forces Sale
Bradford County
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Wanted To Buy
Registered Holstein Heifers, any age.

Write to **Abraham S. King**
139A Colonial Rd.
Gordonville, PA 17529
or call 717-354-4375

SALUNGA ACRES
REG. POLLED HEREFORDS
CATTLE FOR SALE
Club Calves & Junior Heifer Projects. Selection Is Good So Select The Best Early.
R.D. 3, Box 616
Mt. Joy, 17552
717-898-7271

Even Santa got a Tenn. Walker this year. He rides with Pride & Comfort and so can you.

Stop by to choose your horse & tack from a large selection.

Sunny Crest Stables
111 Kindig Rd
Littlestown, PA
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Wishing You A Wonderful New Year!

Arnold's Hog Farm

We are consigning 25 Bred Gilts, due late January thru mid February. For the PA FARM SHOW BRED GILT SALE, January 12 & 13, 1987.

PRIVATE SALE
Service Boars For December & January Service.
Open Gilts, Large Supply, Ready To Breed & Younger.
Boars & Gilts Sired By tested Boars & Out Of Production Tested Dams.
Bred Gilts Due January.

Next Sale
Saturday, February 14, 1987
1:00 p.m.
75 Bred Gilts, 40 Boars, 40 Open Gilts

Yorkshires-Landrace
Leon L. Arnold
R.D. 7, Box 705
Lebanon, PA 17042
717-273-5880

Hampshire-Durocs
Lawrence Arnold
R.D. 1, Box 309
Womelsdorf, PA 19567
717-933-8153

9 HORSES AND MULES

FOR SALE

American Saddlebred Horses
Carriage & Buggy Horses

SPECIAL

1 Load Of Saddlebred Horses from Don Boring Stables and Kentucky Sale

Horses Will Be Hitched At Farm
January 5th & 6th
Will Be Sold At New Holland Sales Stables
Fri., Jan. 9th in the p.m.
Farm is located 1 mile north of Bareville on N. Hershey Ave.

J.Z. NOLT
R.D. 1 Leola, Pa. 17540
717-656-9711

11 SWINE

DUROC YORKSHIRE
Boars & Gilts
Noland Freeze Guards
Port-A-Hut
LEMMON FARM
RD 1, Newburg, Pa. 17240
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QUALITY FARM FRESH FEEDER PIGS
Direct from PA Farms
The Pig Connection
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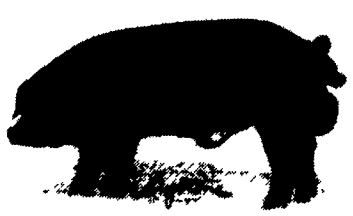
LANDRACE AND POLLAND CHINA SERVICE AGE BOARS

Landrace Sired by
AED3 F KARLSTORP - from high indexing pen at OSU 1984
2.54 ADG .66 BF 6.00 LEA 226 F/G
DNN5 SOLOMON - from high indexing pen at NEMO 1985
2.36 ADG .81 BF 5.51 LEA 214 F/G
SCAN DATA AVAILABLE
Boars From Highly Productive Sows

WE EXHIBITED GRAND CHAMPION CARCASS AT KILE (PCx¾ LAND)
.5 BF 7.4 LEA 30.4 CL 61.79% lean
Kent Strock 717-697-2824
Mechanicsburg, Pa.

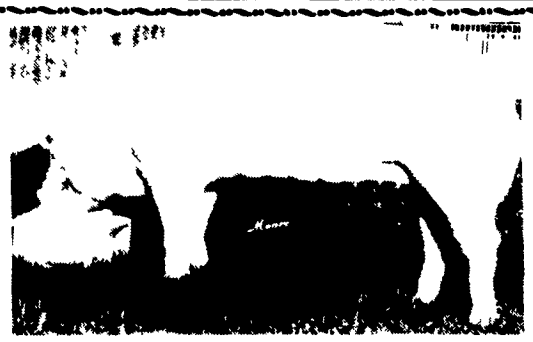
HOLLOWAY DUROCS
"Quality Is Our Priority"
Stop by and see us at the 71st Pennsylvania Farm Show. Offering Bred Gilts sired by MANGO, Premier Sire of the 86 Keystone Classic AND the 86 Maryland State Fair!

DCH REO



Carrying the Service of DCH REO. ($3500 Boar sold to Lavern Weller!) Other fine breeding stock available. (Will deliver to Farm Show)

Dave Holloway
RD 2, Box 323 A-1
Glen Rock, PA 17327
717-235-6966
Validated Herd - Delivery Available



Greenback 3044

ANNUAL WINTER SWINE SALE

Friday, January 16, 1987
1 p.m.
At The Farm
Offering 200 Head
70 Bred Gilts - 50 Service Boars -
80 Open Gilts
Yorkshire - Landrace - Large Whites -
F1 Crossbreds

RPM
RENO PARK MARK
FARMS

Yes. We changed our name. Brooks End and Par Kay Farms are Now

RPM Farms
Reno Thomas 717-658-5821
Park Thomas 717-658-6544
Mark Stehr 717-658-7007
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Write for catalog

BUSY ACRE FARMS

Production, Performance Carcass Show Ring
Our herd has again done well in 1986.
Just to name a few.
Top Pen Yorkshire Boars, Penn State Boar Test, 2nd time on this.
Champion Yorkshire market hog Kile 1986.
Many times for this award.
7 champion & reserve champion in 4-H throughout the State.
New York State Fair Premier breeder in all 4 of our breeds.
Top market hog Yorkshire State Show & Sale 1986.
Many times for this award.
We are consigning 26 Bred Gilts, to PA Farm Show, bred right for 4-H projects.
Bred Gilts, Open Gilts, Boars For Sale At The Farm.
We will offer the best set of July, August and September Boars & Open Gilts ever produced on the farm. Come away from disease problems, come East, closest pigs to our farm 12 miles.
We will deliver.
Also Rambouillet & Hampshire Ewes & Rams For Sale

Duroc & Yorkshire
Calvin H. Lazarus & Sons
Lehigh County
4290 Bridge St.
Whitehall, PA 18052
Farm: 215-799-3375
Market: 215-799-3831

Spots & Chester Whites
Lazarus Bros.
Rt. 1
Germansville, PA 18053
215-767-3595

WILSON YORKSHIRES
Yorkshire - Duroc - Large White
Yorkshire Large White Cross
Concentrating on health, soundness and productivity. 21 day weights, back fat, days to 230.
Sow productivity program PRV #42 BD#130
Boars starting at $250

R.D. 2, Box 44
New Freedom, PA 17349
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DUROC & SPOTTED BOARS
Duroc, Spot, Crossbred Gilts
BOURBON SPRINGS FARM
R2 Newville Pa 17241
Kenneth Ketterer
Phone 717 423 6250

12 ARTIFICIAL BREEDING

Apollo SX44 semen tank. Jetstream, Spirit, Ira, Forecaster, Nedboy, etc. $2,200 for entire unit. 717-992-3355.

13 HOG EQUIPMENT AND SUPPLIES

15 Ag-Star rotary feeder, stainless steel bottom, like new condition. Also 6 ton feed tank. Lancaster Co. 717-733-4583.

Used Zimmerman hog panels w/corner posts: (18) 3'Hx7'8"L; (12) 3'Hx9'2½"L; (7) 3'Hx7'10"L, good condition. Some used #8 Smidley hog feeders 717-665-6596.

SWINE & POULTRY BUILDINGS AND EQUIPMENT

FARMER BOY AG. INC
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SWINE & POULTRY SYSTEMS SPECIALISTS
BEST IN DESIGN PRICE AND EXPERIENCE

SPECIALIZING IN UP-TO-DATE DESIGN & QUALITY CONSTRUCTION OF HOG CONFINEMENT SYSTEMS.
We also manufacture Confinement Equipment and handle a full line of products for today's swine industry, including automated ventilation, feed handling and manure handling systems.

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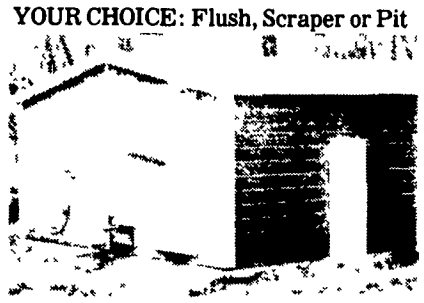
Factory-Built Portable Swine Building Farrowing/Nursery Combination
Farmcraft AGRI SYSTEMS
YOUR CHOICE: Flush, Scraper or Pit



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- Heating

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1-800-732-0053

(Classifieds resume on Page B27)

1987 FARM SHOW

Schedules and Layout

SATURDAY, JANUARY 10 (JUDGING ONLY - SHOW IS CLOSED!)

9 a.m. Swine Judging: Chester White, Berkshire, Duroc, Hampshire, Landrace, Landrace, Poland China, Spotted Swine & Yorkshire — Small Arena
11 a.m. Judging: Tobacco — Lobby
Noon Judging: Corn, Maple Syrup, Fruits & Nuts — Lobby
Noon Judging: Home Economics — Lower Concourse
1 p.m. Judging: Hay & Mushrooms — Lobby
2 p.m. Judging: Apiary Products & Potatoes — Lobby
3 p.m. Judging: Small Grains — Lobby
6 p.m. Judging: Carcass Lambs — Small Arena

MEETINGS:
10:30 a.m. Executive Board, Pa. Cooperative Sheep and Wool Growers Association — Room C
2:30 p.m. Cooperative Swine Breeders Association — Room B
5:30 p.m. Pre-Farm Show Dinner — Hbg. Marriott

SUNDAY, JANUARY 11

9 a.m. Judging: 4-H Entomology, Vocational Horticulture — Lobby
9 a.m. Judging: School Exhibits — Lower Concourse
9 a.m. Judging: Vegetables — Lobby
11 a m. Sheep Judging: Cheviot, Dorset, Hampshire, Shropshire, Southdown & Suffolk — Small Arena
11:15 a.m. Non-Denominational Worship Service — Large Arena
Noon Judging. Dressed Turkeys — Lobby
12·15 p.m. Grand Opening - Public Welcome — Large Arena
1 p m. Exhibit Hall Opens to Public
1 p.m. Judging: Christmas Trees — Lobby
1 p.m. Judging: Eggs — Poultry Room
6 p.m Doors Close

MEETINGS:
Noon Charolais Association — Room E
2 p.m Pa Dorset Breeders Association — Room C
4 p.m. Board Meeting, Pa. Christmas Tree Growers — Hershey Lodge

MONDAY, JANUARY 12 - SENIOR CITIZENS DAY

8 a.m Doors Open
8 a.m. Judging Poultry — Poultry Room
9 a.m. Draft Horse Judging: Belgian & Clydesdale — Large Arena
9-4 Vo-Ag School Demonstrations — Penna. Room
10 a.m. Swine Sale: Yorkshire — Small Arena
10 a.m. House Agriculture Committee Meeting — Room D
10:30 a.m. Press Conference- PA- Dairy Promo Program — By Press Room
11 a.m. Draft Horse Judging: Percheron — Large Arena
11:30 a.m. Swine Sale: Spotted Swine — Small Arena
1 p.m. Swine Sale: Poland China — Small Arena
2 30 p.m. Swine Sale: Chester White — Small Arena
3 p.m. Judging: Wool — Small Arena
5 p.m. Sheep Judging: Corriedale, Merino & Ra.m.bouillet — Small Arena
5.30 p.m. Secretary of Agriculture's Night — Large Arena
5 30 p.m. Hitched Horse Competition - Ladies, Open & Youth Cart Classes — Large Arena
6 30 p.m Secretary's Welcome & Award Presentations — Large Arena
7 p.m Cumberland County 4-H Mounted Drill — Large Arena
7.30 p.m. Team Hitch & Obstacle Classes — Large Arena
8 p.m. Border Collie/Sheep Dog Exhibition — Large Arena
8 30 p.m. Unicorn & 4-H Horse Hitch Classes — Large Arena
9 p m. Doors Close

MEETINGS:
8 a m. Annual Meeting, Pa Christmas Tree Growers — Hershey Lodge
10 a m. House Agriculture Committee Meeting — Room D
11 a m State Grange — Room B
Noon Pa Agriculture Democratic Luncheon Meeting — Room C
1 p.m Pa. Master Corn Growers — Room E
3 p m Cooperative Swine Breeders Association — Room D
6 30 p m Banquet, Pa Christmas Tree Growers Association — Hershey Conv Center

TUESDAY, JANUARY 13

8 a m Doors Open
8 a.m Dairy Cattle Judging Guernsey, Brown Swiss & Milking Shorthorn — Large Arena
8-4 Vo-Ag School Demonstrations — Penna. Room
9 a m. Dairy Cattle Judging. Holstein — Large Arena
10 a m. Swine Sale· Berkshire — Small Arena
11 a.m Dairy Cattle Judging: Ayrshire & Jersey — Large Arena
11.30 a m. Swine Sale Duroc — Small Arena
1 p.m. Swine Sale: Hampshire — Small Arena
2·30 p.m. Swine Sale· Landrace — Small Arena
6 p.m. Master Farmers Night — Large Arena
6 p.m Penn State International Dancers — Large Arena
6 30 p m. Junior Sheep Blocking & Grooming Contest — Small Arena
7·15 p.m. Folk Dance Festival & Contest — Large Arena
9 p m. Doors Close

MEETINGS:
8 a m. Annual Meeting Pa. Christmas Growers — Hershey Lodge
9 a.m. Annual Meeting, Society of Farm Women of Pa. — Room D & E
Noon Recognition Luncheon, Master Farmers — Penn Harris
1 p.m. Winter Meeting, Pa. Brown Swiss Assn — Room D
3 p.m Winter Meeting, Pa Ayrshire Breeders Assn. — Room C
6.30 p.m. Pa. Dairymens Assn. — Penn Harris
6 30 p.m. Pa. Angus Assn. — Host Inn
7 p.m Pa Draft Horse & Mule Assn — Room E

WEDNESDAY, JANUARY 14

8 a.m Doors Open
8-11 a m Vo-Ag School Demonstrations — Penna. Room
8 30 a m. Junior Sheep Breeding — Small Arena
9 a.m. Beef Cattle Judging Angus & Polled Hereford — Large Arena
10 a m Junior Market Lambs — Small Arena
11 a.m. Beef Cattle Judging: Limousin — Large Arena
Noon Beef Cattle Judging: Charolais — Large Arena
1 p.m. Junior Lamb Showmanship — Small Arena
2 p.m. Beef Cattle Judging: Simmental — Large Arena
4:30 p.m. Horse Pulling Contest: Lightweight Division — Large Arena
Six-Horse Hitch Demonstration — Large Arena
Horse Pulling Contest: Heavyweight Division — Large Arena
6 p.m. Pennsylvania Sheep to Shawl Contest — Small Arena
8:30 p.m. Auction of Shawls from Contest — Small Arena
9 p.m. Doors Close

MEETINGS:
9 a.m. 58th Convention, Future Farmers of America — Forum Building
10 a.m. Future Farmers of America Foundation — Room C
1:30 p.m. Horse Pulling Contestants — Room D
3 p.m. Pa. Charolais Assn. — Room C
3 p.m. Pa. Limousin Assn. — Room E
5 p.m. Pa. Simmental Assn. — Room D

THURSDAY, JANUARY 15

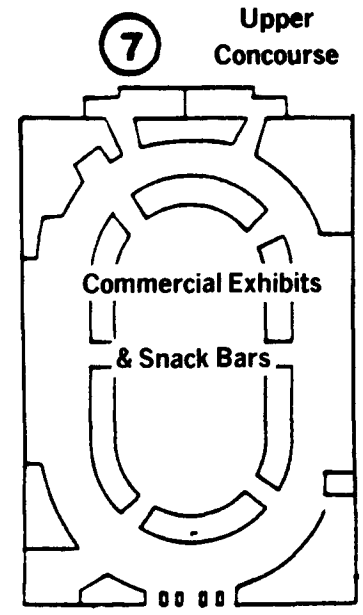
8 a.m. Doors Open
8·30 a m. Junior Beef Breeding· Angus, Charolais, Limousin, Polled Hereford & Simmental — Large Arena
8:30 a m. Junior Market Swine — Small Arena
9 a.m. 4-H Potato Grading & Identification — Room E
Noon Junior Steer Classes — Large Arena
1 p.m Junior Swine Showmanship — Large Arena
3:15 p.m. Grand Champion Steer — Large Arena
3:45 p.m Junior Beef Showmanship — Large Arena
6 p.m. Pony Pulling Contest Lightweight, Mediumweight & Heavyweight Classes — Large Arena
7 p.m. Championship Bid Calling Contest — Small Arena
9 p.m. Doors Close

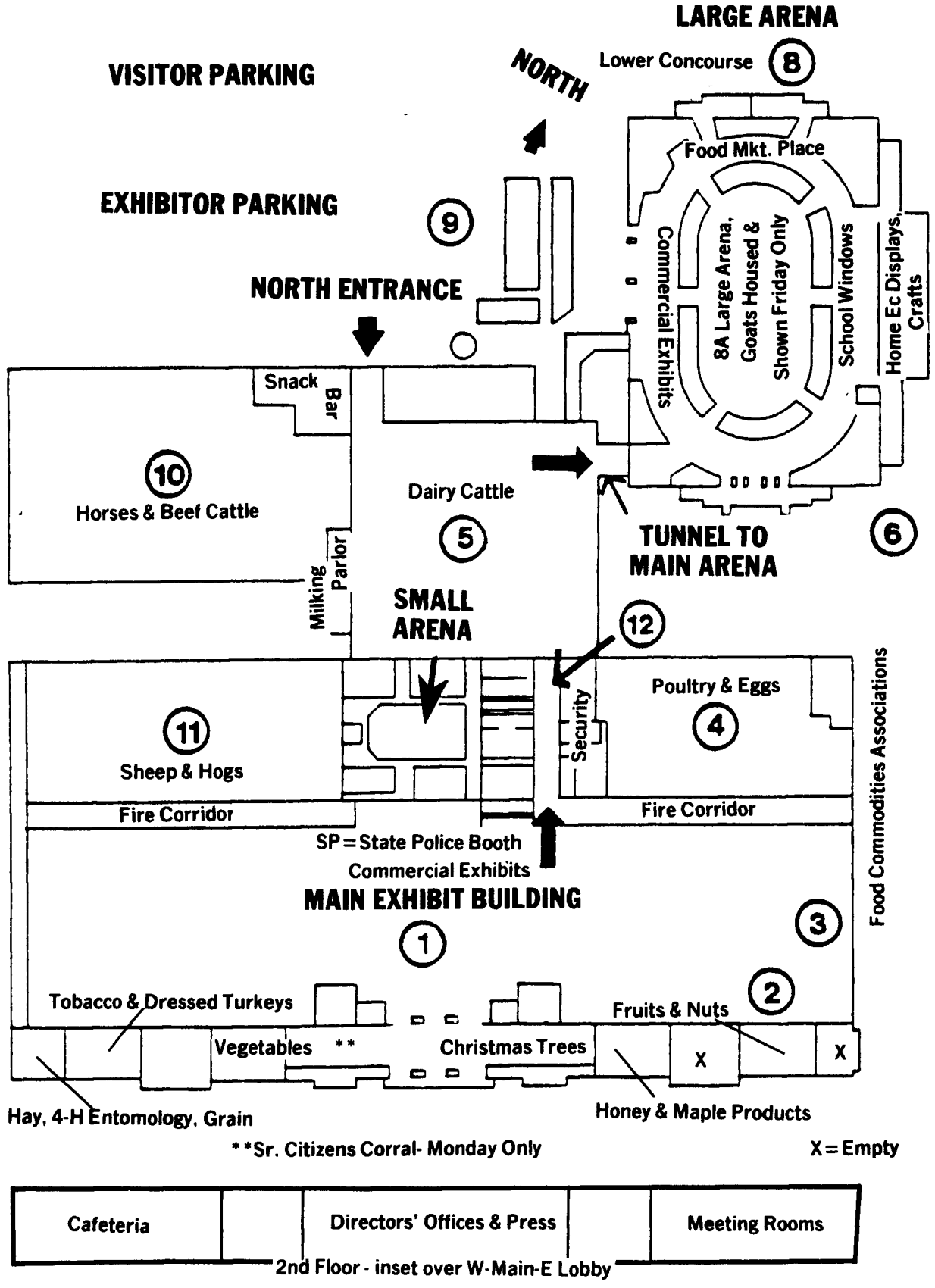
MEETINGS:
10 a.m. Pa. Nut Growers Assn. — Room D
1 p.m. Pa. Maple Syrup Producers — Room C
2 p.m. Pony Pulling Conestants — Room B

FRIDAY, JANUARY 16

8 a.m. Doors Open
9 a.m. Dairy Goat Judging: Alpine, LaMancha, Nubian, Toggenburg, Other Purebreds & Recorded Grades — Large Arena
10 a.m. **Sale of Champions & Reserve Champions** — Small Arena
11:15 a.m. Junior Market Swine Sale — Small Arena
1 p.m. Junior Market Lamb Sale — Small Arena
2 p.m. Junior Steer Sale — Small Arena
4 p.m. Doors Close on 1987 Farm Show

**Note: The only places with 2 levels are arena and Maclay Street side (Lobby).





VISITOR PARKING

Farm Show Exhibitors

COMMERCIAL EXHIBITORS

Space Nos. 1 through 627 - Main Floor
Space Nos. 628 through 671 - East Room
Space Nos. N1 through N42 - North Building
Space in Large Arena indicated by U (Upper Level) or L (Lower Level)
Food Market Place - Separate Listing
Outside Spaces - O/S - Separate Listing
Commodity Booths and Church Booths - Separate Listings

	Space #
AAA Associates, Inc.	544-545
Adams County Nursery	482
Advanced Ag Systems	631-632
Ag-Bag Corporation	N19, N20, N21
Agri-Broadcasting Network	537
Agricol Corporation	628
Agri. Stabilization & Conservation Service	393
Agrotec, Inc.	606, 607, 608
Agway, Inc.	365-370 & 381-386
A.I.A. Industries	638, 639
Alamo Group, Seguin Texas Division	9, 10
A & A Allen, Co.	483
Allied Farm Equipment	168-170 & 183-185 & 196-198
Alpine Plant Foods, Inc.	453
American Breeders Service	N14, N15
American Dairy Assn. & Dairy Council of NY; Mid Atlantic Milk Marketing; PA Dairy Promotion Program	N4, N5, N6, N7
Amsoil	N17
Anchor Laboratories	510
Atlantic Breeders Cooperative	N42
Babson Brothers Co.	402, 403, 404
Badger Associates	72, 73, 78, 79
Badger Northland, Inc.	562-564 & 573-575
Beachley Hardy Seed Co.	423-425
Bender Machine Works	416
Berg Equipment Co.	398, 399, 410, 411
Boydell Farms	504
Brad-Tro Equipment	629, 630
Brawley Distributing Co.	578, 579
Brittingham Plant Farm	446
Brookside Industries, Inc.	L9
Butler Livestock Industries	275, 276
Butler Mfg. Co.	158, 159, 160 & 145, 144, 143
Cagle Mfg. Co., Inc.	615, 616
Cann's-Bilco	557, 558, 559
Carlton Seed Co.	442
Carter Seed Farm	452
Case Farm Hatchery	663
Case IH	65-71 & 80-93 & 102-115
Century Mfg. Co.	463
Clay Equipment Co.	520-522 & 529-531
Conaway, Inc.	468-470
Conklin Company	N12, N13
Cornell Mfg. Co.	548, 549, 560, 651
Cub Cadet Corp.	338, 339
Culligan Water Conditioners	U2
Cummings And Bricker	350-353
Cummins Engine Supply Co., Inc.	458, 459
Custom Farm Seed	662
Dairy Council, Inc.	N45
Dairy Equipment Co.	526, 527, 528
Danco Products	50, 51, 56, 57
John Deere Co.	212-225 & 240-253
Dekalb-Phizer Genetics	488, 489, 490, 491
DeLaval Agri. Div.	417, 418, 419, 420
Delaware Valley College	535
Denlinger, Inc.	659
Deutz-Allis Corporation	146-157 & 171-182 & 199-204
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Dynamatic Feeding Systems, Inc.	268, 269
Eastern Milk Producers Cooperative	N,22, N23
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Engine Distributors, Inc.	511
Environmental Systems, Inc	660
E-Z Trail, Beefco & Kasco Co.	26, 27, 36, 37
F.M.C. Corp., John Bean Div.	312, 313 & 326-329
Farm Tech Service, Inc.	658
Farmmaster	656
Farmers Home Administration	392
Farmshine	543
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Feedmobile, Inc.	590
Fiberdome, Inc.	13, 14
Fickes Silo Co., Inc.	266, 267
Ford Tractor Operations	141, 142, 161 to 167 & 186 to 195
Furst McNess Company	516
Gans Tire Service	567, 568, 569, 570
Gehl Co.	43-45 & 62-64
Gossett Livestock Premixes	601
Grain Systems, Inc	604, 605
Gravely Tractor Corp.	565, 566, 571, 572
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Growers Fertilizers Solutions	583, 584
Hamilton Equipment Co.	314-319 & 320-325 & 330-335
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Hoffman Seeds, Inc.	492-495
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Kane Mfg. Co. Inc.	N35
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Kendall Refining Co.	472
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NC+ Hybrids	499
Nachurs Plant Food Co.	478
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New Idea Farm Equip	205-207, 230-235 & 258-260
Niemeyer Corp	553-556
Norbco Equipment	N43, N44
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Norton Co.	542
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Ohio Dairyland Cheese Co	Corridor between Main & North Bldg.
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Palco Livestock Equipment Co	LL-6
Pars, Inc.	661
Patz Sales, Incorporated	550-552
Peace Corps US.	U6
Penn Forestry Co., Inc	LL-2
Penn Jersey Products, Inc	270-273
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PA. Beef Council	1 NW Bldg
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PA. Dept. of Labor & Industry/Office Of Employment Security	U-5
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Roskamp Mfg , Inc	502, 503
Ryder Supply Co	342-345 & 358, 359
Safeguard Products, Inc	654, 655
The Schlueter Co	412-415
Schnupps Grain Roasting	644
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Seedway, Inc	484-486
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Top Line Corp	400, 401, 408, 409
Troyer Mfg. Co	592, 593
U S.D.A., Soil Conservation Serv	394
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White Farm Equipment Co	208-211 & 226-229 & 236-239 & 254-257
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Frank W. Winnie & Son, Inc.	587
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JS Woodhouse Co	362-364 & 371-373 & 378-380 & 387-389
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Vermeer Manufacturing Co	17

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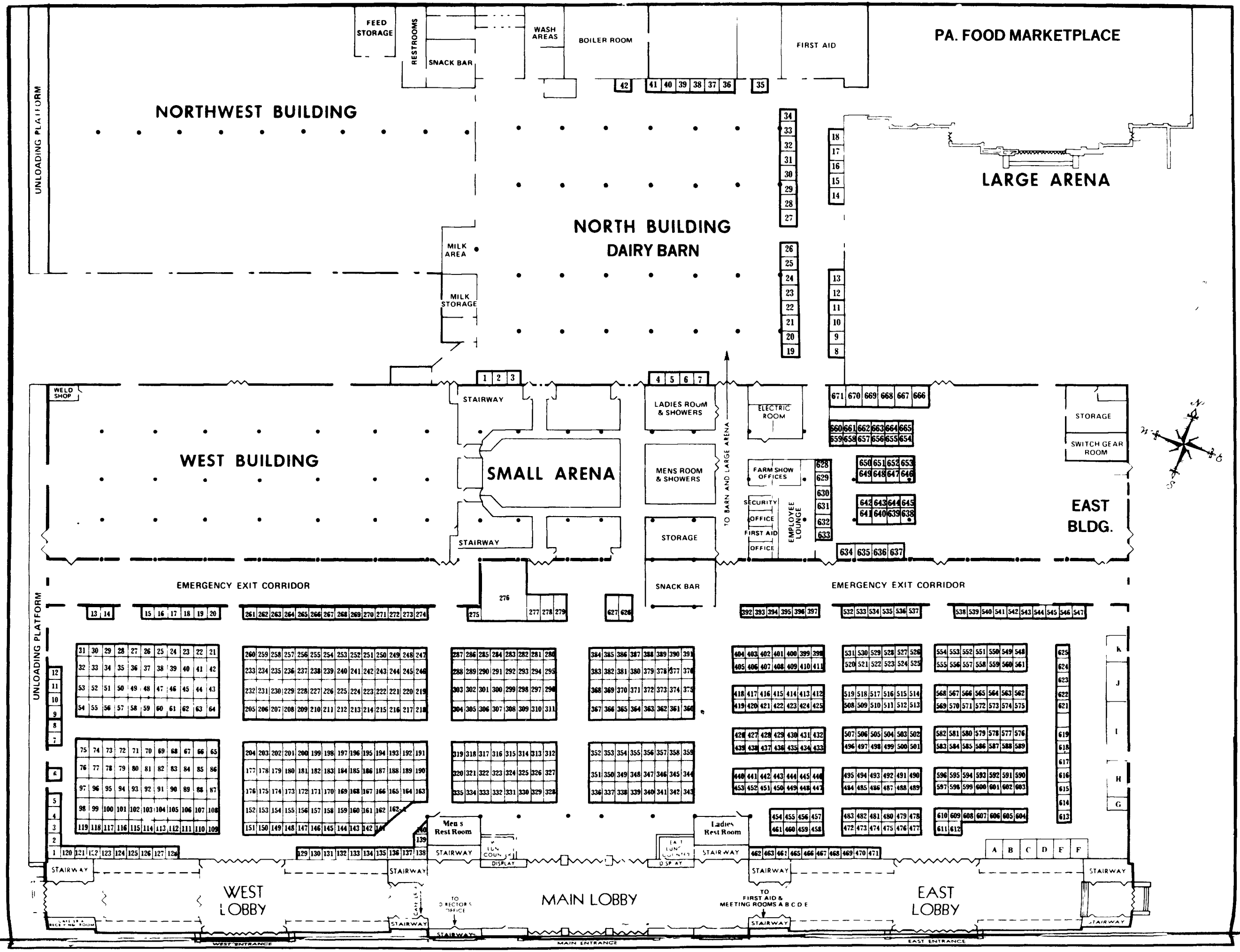
Bakery In A Barn	12
Berks Packing Company	19
Boston Farm Products	8
Frank Capatch	3
The Cookie Corner	7
John Cope Co	25
The Country Deli	5
Fresh Mushroom Awareness Assoc	10
Furman Foods	18
Groffs Home Made Candies	13
Halls Pleasant Home Farm Dairy	22
Hartman's Mill	23
Hatfield Packing Company	1
Herr Foods, Inc	15
High Point Acres	16
Kitchen Kettle Foods, Inc	14
Leo's Dairy	11
Lime Valley Farms	24
Magic Wand Bakery	2
Nibble With Gibbles	27
Penn Mar Coop	17
PA Coop Potato Growers	4
PA Maple Syrup Council	20
Seltzer's Lebanon Bologna	26
Spring Glen Farm Kitchen	6
The Daniel Weaver Co	21
Weis Markets, Inc	9

COMMODITY BOOTHS - MAIN FLOOR

5 PA Cooperative Potato Growers
4 PA. Dairymans Association
8 The PA Livestock Association
2 PA Mushroom Growres Cooperative Assn
6 PA State Beekeepers
3 PA Poultry Federation
1 PA Vegetable Growers Assn
7 State Horticultural Assn Of PA

CHURCH BOOTHS

1. St Marks Evangelical Lutheran Church
2 St Margaret Mary's Church
3 Park Street United Methodist Church
4 Beth El Temple


PA. FOOD MARKETPLACE
FEED STORAGE
RESTROOMS
SNACK BAR
WASH AREAS
BOILER ROOM
FIRST AID
NORTHWEST BUILDING
UNLOADING PLATFORM
LARGE ARENA
NORTH BUILDING
DAIRY BARN
MILK AREA
MILK STORAGE
WELD SHOP
STAIRWAY
LADIES ROOM & SHOWERS
ELECTRIC ROOM
WEST BUILDING
SMALL ARENA
MENS ROOM & SHOWERS
TO BARN AND LARGE ARENA
FARM SHOW OFFICES
SECURITY OFFICE
FIRST AID OFFICE
EMPLOYEE LOUNGE
STORAGE
SWITCH GEAR ROOM
EAST BLDG.
STAIRWAY
STORAGE
SNACK BAR
EMERGENCY EXIT CORRIDOR
EMERGENCY EXIT CORRIDOR
UNLOADING PLATFORM
Men's Rest Room
Ladies Rest Room
STAIRWAY
DISPLAY
WEST LOBBY
MAIN LOBBY
EAST LOBBY
TO DIRECTORS OFFICE
TO FIRST AID & MEETING ROOMS A B C D E
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CALKO® = LIME PLUS FREE POTASH & SULFUR!
High Quality Lime Plus 50-60 Lbs. of Potash (Worth $7.00) & 80-100 Units of Sulfate (Worth $12.00) In Every Ton
University & USDA Tested and Proven!
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78-80 + ENP (effective neutralizing power)
We Deliver!
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16 FERTILIZER

MULCH HAY WANTED
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FOR SALE
POULTRY MANURE
Delivered Prices
Dauphin, Juniata, Lebanon, Cumberland and Snyder Counties $11.00
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BROILER MANURE FOR SALE

* Delivered in 22 ton loads
* Custom Spreading Service Now Available
* Mushroom Soil Available

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We custom build double chain wooden conveyors and taperboard feeders.

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PORTABLE GRINDING and MIXING SERVICE
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Good Service - Reasonable Rates
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21 SERVICES OFFERED

BRADFORD'S HOOF TRIMMING. 301-378-4603 or 301-838-5105.

Dairymen are you working longer and harder and ending up with less money and more discouragement? Let me help you make more money and start to enjoy farming again. Guaranteed to find ways to improve your operation or no charge. 814-839-4271.

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60 bales or less

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During my 20 years experience, I developed a way & designed tools & equipment to trim cows hoofs better & faster than anyone else. My way is easier on the cow & the farmer and I can prove it to you. I have references from many satisfied customers, you can also be one of them. Serving the East Coast. For more information & demonstration call Simon,

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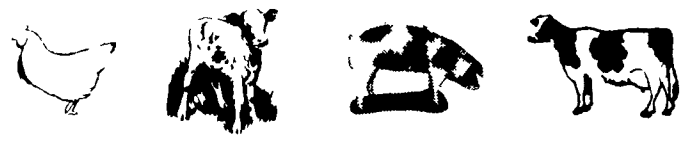

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YOUR Bill Getting To High?
Check Other Hourly Rates - Then Call for Our Rates
We're Experienced & Do Quality work
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1543 East Newport Road, Lititz, PA 17543
717-627-0055

23 HELP WANTED

Person w/management ability for 200 cow dairy. House, utilities, days off, insurance, good pay. Lancaster Co. area. Send resume to: Lancaster Farming, P.O. Box 366 L-117, Lititz, Pa. 17543.

Responsible person to manage a 90,000 capacity broiler operation. Home available. Would also consider leasing to qualified person. Southern York Co. 717-993-6649

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Roofing & Siding Applicators Needed. Good pay & benefits. Reply to: P.O. Box 292, Bird-In-Hand, Pa. 17505.

Southwestern PA dairy farm seeking full time herdsman. Primary responsibility for milking, feeding & breeding programs. Opportunity to build equity in ownership of animals. Good compensation commensurate with experience, skills & ability to assume responsibilty. Write or send resume to Lancaster Farming, PO Box 366-R-102, Lititz, PA 17543.

TEXAS REFINERY CORP. offers an opportunity for high income PLUS cash bonuses and fringe benefits in your area. Regardless of experience, write W.K. Hopkins, Pres., Box 711, Ft. Worth, TX 76101.

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Will do trucking with tractor and trailer or with pickup with gooseneck trailer, of farm machinery or almost anything.
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Person to manage large produce farm. Must have good equipment and mechanical experience. Housing provided. Salary based on experience. Ho. Co. 301-489-4630.

Fulltime feed truck driver. Must have Class 3 license. Night Work. Mt. Joy area. 717-653-8783

Full time position for dependable person on 75 cow modern Lancaster Co. dairy. Good pay & benefits. Can have some cows in our herd. Prefer christian young man, references required. 215-593-2415.

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215-869-9267

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HELP WANTED: For an assistant herdsperson needed on 90 cow dairy farm with rolling herd average over 21,000 and over 730 fat. Must have experience with milking. Small Christian family preferred. Good housing and benefits included. Only qualified need apply. So. Chester Co., PA. 215-347-2346.

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farm to farm.
Must have dairy farm experience and be aggressive. Guaranteed salary plus commission and excellent benefits
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Person for spray application and sales. Experience helpful.
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Dairy Equipment Serviceman for Lebanon area.
Experience preferred.
Full benefits
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Box 337 Blue Ball, PA
Call For Appointment
(717) 354-4955

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Full-time person with experience in poultry farming. Must have Class II license. Be responsible. Housing and Blue Cross and Blue Shield and vacation. 50 hour work week.
Reply to: Lancaster Farming
P.O. Box 366, K-131
Lititz, PA 17543

MANAGER - ASSISTANT
Feed Manufacturer - Purina Distributor, Southern Chester County. Mostly Equine Feed Stuffs. Hands on, final job description depending on person and new facility Spring of '87. $350. per week. Benefits - Medical. Send resume to:
P.O. Box 164
Unionville, PA 19375
or Call
215-444-3135 Evenings

DOMESTIC HELP
Security plus modern living quarters in exchange for 2 qualified, experienced people to run a country estate. Couple preferred. Duties: Groundskeeper/handyperson. Also housekeeper/cook. Hours to be gauged around owner's convenience. Beautiful country living — looking for long-term, serious-minded people.
Reply
Lancaster Farming
P.O. Box 366, A-112
Lititz, PA 17543

Helper needed for large sow complex. Must be willing to work every third weekend. Experience preferred but not necessary. East Coast Hog Service, 35 N. Cedar St., Lititz, Pa. 17543. Call 717-626-6566

Person needed on Lehigh Co. grain, potato, and poultry farm for general farm work. Machinery experience & references desired. Benefits & housing available. Reply to: Lancaster Farming, P.O. Box 366-L-115, Lititz, PA. 17543.

Experienced person to be involved in all phases of dairy operation in one of PA's top Holstein herds. House available, top salary & benefits. References & resume required.
KEYSTONE FARM
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HELP WANTED FOR ROOFING
Dependable & conscientious workers needed for shingle application. Excellent benefit package.
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sought for the PA Guernsey Breeders' Association. Responsibilities include management, member service programming, promotion, public relations and on the farm work with breeders. Salary offered will commensurate with candidates qualifications and experience. Benefits included. Send resume to
PGBA
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Waynesboro, PA 17268

HELP WANTED
Truck driving positions available for hauling live poultry. Would prefer applicants to have Class III license, have 2 years minimum driving experience, be 21 years or older, have farming or poultry background. Apply at
Melhorn Trucking Co.
1010 W. Main St., Mt. Joy, PA 17552

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ROUND HILL FOODS is seeking an individual for the position of Service person. Requires an interest in Agriculture and a desire to learn disease control & management of birds. This person must be out going & enjoy working w/people. Some college training is preferred.
Interested persons should send resume, including current salary to:
Round Hill Foods, Inc.
Attn: Grow Out
P.O. Box 38
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Modern dairy farm looking for an ambitious crop foreman to care for 600 acres of crop land, 50% alfalfa, and help in dairy barn.
Duties include: planting, harvesting, maintenance, managing people, mixing feed, part-time milking.
Must have dairy experience, welding, own tools and basic mechanical knowledge.
215-756-6993

Full Time Parts Counter
—— Employee ——
to handle customers parts orders, shipping and receiving. Prefer individual with outgoing personality, detail oriented and some parts experience.

Full Time Hog Equipment
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Requires overnight travel. Good mechanical ability, heavy lifting required. Experience a plus.

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23 HELP WANTED

Person to work on dairy farm. Must have experience milking cows. Reference required. 717-456-7372

Mechanic field person for dairy and grain farm. Experience a must. Winding Brook Farm, Bucks Co., PA. 215-348-5514.

Herdsperson for 100 cow plus dairy farm. Experience a must. Winding Brook Farm, Bucks Co., PA. 215-348-5514.

Assistant herdsperson on New Jersey dairy farm. Experienced preferred. House included. 609-259-2630 or 259-7494.

Help needed on Northern Virginia Dairy Farm, 1 position open for dairyman, 1 for farm help & relief milker. Housing & other benefits provided. 703-399-1055

Farm Help: General farm work, some milking in parlor, house available, Blue Cross, Blue Shield, pension plan. FM Brown & Sons, Inc., RD2, Douglasville, Pa. 19518. Call 215-582-4591

DISTRIBUTOR REPS WANTED

Part or full time to represent A.I.A. Industries, Inc., leader in the silage bagging business.

Some products include baggers & bags, round bale wrappers, bale bags, bale tubes, bale tube baggers, grain baggers & silage innoculants.

Contact **Frank Walters**
At the Farm Show, Booth #638 & 639
or call 717-949-3329 for details

Farm Equipment Appraisers needed Are you familiar with Farm Equipment values? If you are, you may be qualified to become a Certified Farm Equipment Appraiser
Call
208-734-7570
American Society of Farm Equipment Appraisers
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Twin Falls, Idaho 83303

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Responsible and motivated persons who seek a rewarding and progressive career working with people are welcome to apply for work in artificial insemination sales and service for cattle. Preferred: ag background, safe driving record, willing to relocate in PA, education and/or experience given positive consideration. Compensation: above average income, fringe benefits, equipment provided, paid training, travel allowance. Mail resume to:

Atlantic Breeders Cooperative
1575 Apollo Drive,
Lancaster, PA 17601

25 BUSINESS OPPORTUNITIES

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A.I.A. Industries, Inc., leader in the silage bagging business is seeking dealers. Some products include Baggers & bags, round bale wrappers, bale bags, bale tubes, bale tube baggers, grain baggers & silage innoculants.

Contact **Frank Walters**
at the Farm Show Booth #638 & 639
or call 717-949-3329 for details

WANTED: FAMILY TO OPERATE BREEDER FARM

Farm background required. Looking for a family unit that will take full responsibility of tending 40,000 breeders in a completely automated house. Farm located in Manor Twp. Very desirable home to live in on the farm. For further information contact 717-653-1102, 9 a.m. to 4 p.m. weekly, please ask for Wendy.

Quilts and Quilters Wanted

Large midwest quilt shop needs extra fine quilts. Send photos and prices.

WE PAY CASH!

We also buy good Antique quilts.

The Country Store
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501-253-7648

26 HOUSEHOLD

Maytag wringer washers--few like new. Engine of your choice. We mount or kits to mount your own. Maytag parts in stock. Stoltzfus Engine Service, 2447 Stumptown Rd., Bird-in-Hand, PA 17505.

32 MISCELLANEOUS

SCHOOL CANCELED ORDER! New free arm zig zag sewing machines, metal, heavy duty, 32 built-in stitches. List $560. Only $148. Nelco-Singer Dealer, 1-716-684-4880.

Showcases, for jewelry, etc. Desk for computer or typewriter. Commercial hairdryer. 15h air compressor. (3) 60 hp electric motors. 201-291-9371.

Bandsaw blades made to order. Wood, metal or meat cutting. Also, butcher handsaws & blades. UPS shipping. 717-733-0511. Martin's Sharpening, RD#1, Ephrata, PA 17522.

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Heavy duty woodworking equipment, power tools & air compressors. Precise quality, low prices & 100% guaranteed.
15" Planers, $695.
15" Scroll Saws, $99.95.
14" Band Saws, $275.
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6" Jointers, $275.
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4x6 Belt & Disc Sanders, $79.
6x9 Belt & Disc Sanders, $189.
6x196 Stroke Sanders, $635.
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5HP 60 gal. Air Compressors.
Larger Equipment Available. Super Savings on all size air compressors. Bargain Prices on Makita, Milwaukee, Porter Cable, Black & Decker, Ryobi, David White Transits & more.
Call for prices. Cash discounts. VISA, Mastercharge accepted. Wholesalers welcome. Will try to beat any price, anywhere.
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Wanted to Buy: Coal stove, good working condition. Old type or antique. Lancaster 717-656-2257 or 717-394-2377.

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A central Pennsylvania egg processor has an immediate opening available for a motivated, self-starting individual as plant manager in its shell egg division Must have back ground in processing plant management.

Responsibilities include:

* Personal Management
* Purchasing And Sales Contacts In A Plant With A New Stallkat 8200 Grader

Send resume to:
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6 male Police Pups, $25. each. 215-932-2764

Catahoula dogs and pups for sale. 215-493-4900.

Registered Australian cattle dog pups, 6 wks., $100. 717-529-2937. Lanc. Co.

WANTED-Puppies, all breeds. Jack's Dog Farm, Rt. 611, Pipersville, PA 18947. 215-766-8802

PUPS WANTED
AKC & Cute Curly Mixes, 7 weeks old for pets only. Highest cash prices paid. Reliable weekly pickup. Call The Puppy King at Pet Depot.
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Call Collect
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Thursday Only
P.S. We buy pups 52 weeks a year.

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PREMIUM GRADE
ANRACITE COAL
LONG BURNING
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ALL SIZES
TRAILER LOADS
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Meat grinders, band saws, slicers & tenderizers. Also new splitting saws for only $249.00.
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On Rt. 75 - 200 yds. N. of Rt. 274.
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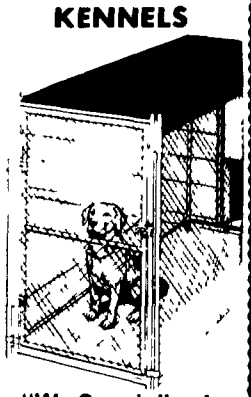

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AKC, Purebred, Mixed Litters.
Stud service for most breeds
Transportation provided
Forest Ridge Kennel
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Must be established, having allied Agricultural and Industrial lines, to sell paper, burlap and mesh bags, and packaging supplies.

62 year old company looking to expand sales territory in Pennsylvania, has good opportunity for aggressive person to represent us. Call or write, giving your background.

If you are interested in selling a good product, much in demand - let's talk it over.

Call collect **516-681-5900**

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70 COMMERCE PL., HICKSVILLE, N.Y. 11801
TEL. 516-681-5900 N.Y.C

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Come & see real action as they perform some of their farm & ranch duties for you.
MONDAY, JAN. 12 at 8 P.M.
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The cows are falling.
How do you know?
Farmer Brown said so.

How do you know Farmer Brown?
I saw it with my eyes.
I heard it with my ears.
And there is less milk in the pail.

Let's go ask the wise old owl.
The owl thought for a moment.
"Call the Scabbler Man", he said.
"He can fix the barn for you, and
You'll find more milk in the pail!"

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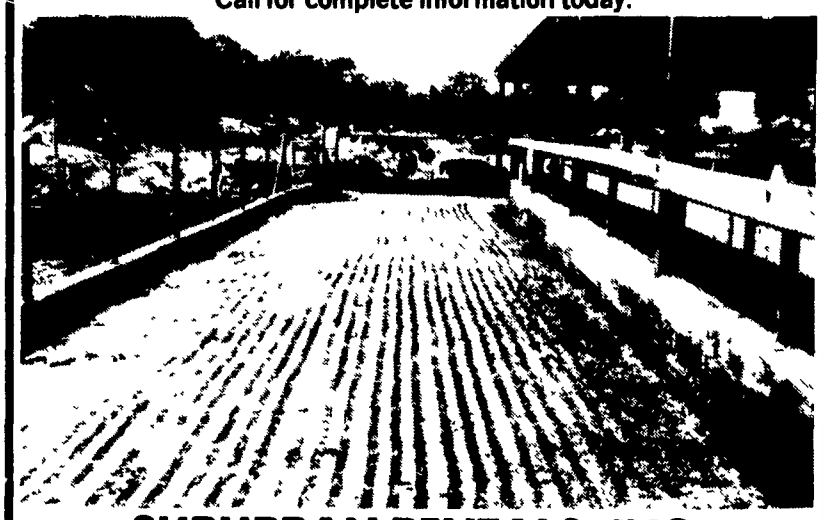

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Position available, leading to full time. Dutch Farm Snacks in the Denver/Ephrata area. Customer requirements have prompted us to look for a dedicated, hard working tractor trailer driver with 3 years of over the road, accident free experience. Hauls to Central Pennsylvania, Eastern United States and Detroit area. Company tractor and trailer furnished and maintained. Workers comp. insurance coverage, liability insurance coverage. Must have class 3 license. Must be able to pass DOT physical and meet DOT requirements.

Apply in person at:

Dutch Farm Snacks
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32 MISCELLANEOUS

2100' 8" ABS Armco truss pipe, $1.00 per foot; Wye saddles and delivery available. Good for drain pipes, etc. Lancaster Co. 215-267-5992.

ANTIQUE WOOD BEAMS, excellent condition, various lengths. Good for restoration work, $.85 - $1.50 linear feet. Call 215-383-0800.

Bought and sold new and used cardboard boxes, drums. Pint, Quart & Gallon Containers. Reliable Recyclers, 178 Greenfield Road, Lanc., PA, 17601, 717-397-7695

Pole Buildings 24'x40' completely erected $3,999.00. Overhead and entrance doors included. Other sizes available. Call CHAPARAL BUILDINGS 1-800-772-0072 Anytime. Material Only Packages Available.

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Replaces conventional septic systems with a self-contained bioconversion appliance • Eliminates wastewater discharge • Constructed from rugged stainless steel and non-porous plastic • Features positive venting for odorless operation • Easily maintained • The compact HUMUS 80 occupies only 25"x33" of floor space

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Hossfeld pipe bender.
Quick change toolpost.
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1970 23' Omega motor home, fully loaded, self contained, ready to travel, excellent shape, $7,000. 215-279-7739

FOR SALE: 1985 Rockwood 31' Class A motor home, 3,049 mi., roof air, dash air, microwave oven, awning, center bath, tow hitch, 454 Chevy engine. Still under warranty. 717-273-5231 or 272-0574.

34 AUTOS

Wanted: 1965-73 Ford Mustang, any condition, will travel 717-244-8143. York Co.

35 TRUCKS AND TRAILERS

TRAILERS OF ALL KINDS. Cattle trailers, general purpose trailers, with or without racks, $400 and up. Buy directly from manufacturer and save. Phone 717-423-6794, CLW Mfg

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1982 Kenworth K100, full sleeper, 350C (Big Cam), recent clutch, tight engine, very clean, $25,500. Also available 1974 44x13'6" Merritt cattle & hog trailer, very clean w/excellent rubber & spare, $10,500. Call 1-800-222-0645. Ask for Dee

35 TRUCKS AND TRAILERS

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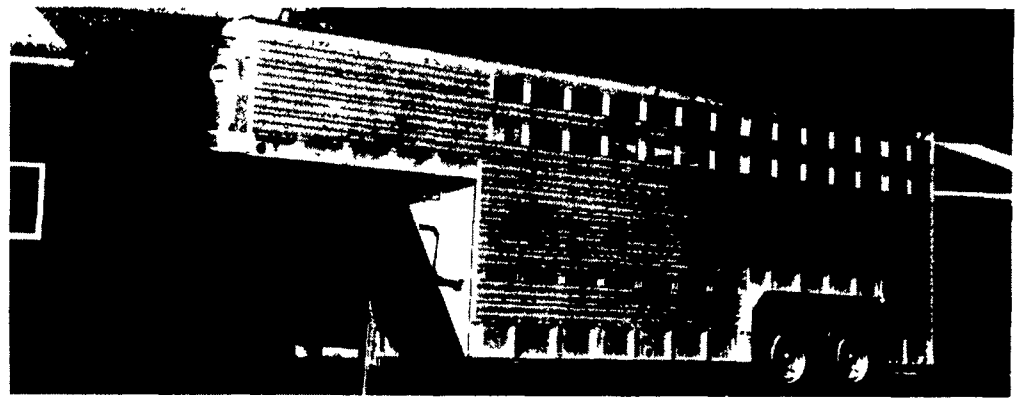
ALUMINUM GOOSENECK TRAILERS

EBY BLUE BALL, PA



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20' Gooseneck Trailer

A versatile, lightweight, Eby aluminum stock trailer is built to provide years of maintenance free service An Eby trailer is custom built to fit your individual hauling needs - No mass production! We use only quality components and strong alloy aluminum to manufacture what may be the last trailer you'll ever buy

IN STOCK

NEW

20'L x 8'W x 6'9"
24'L x 8'W x 6'6"

Both w/Hyd. Brakes + 8,000 Lb. Axles

- LIGHTWEIGHT - Eby stock trailers are 25-35% lighter than comparable steel trailers. Less weight means better fuel mileage or increased payload.
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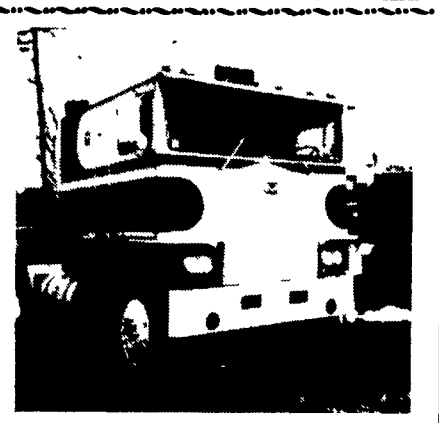
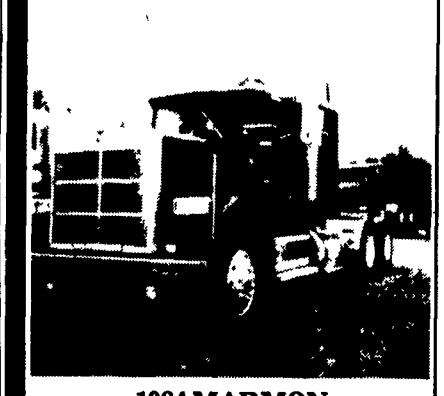


1980 MARMON
Double Sleeper Cab, 180" Wheelbase, NTC 400, RTO 12513, SQHP @ 4.11, 11x24.5 Radials, All Alum. Wheels A/C, P/S, Jake Brake
$24,600



1984 MARMON
Wheelbase 220", NTC 400, RTO 12515, Jake Brake, Neway Air Suspension, 40" Sleeper, Dual Hi-Backs, A/C, P/S, AM/FM Stereo, 248,000 Miles, Like New Condition, 23,000 Miles On Cummins Overhaul
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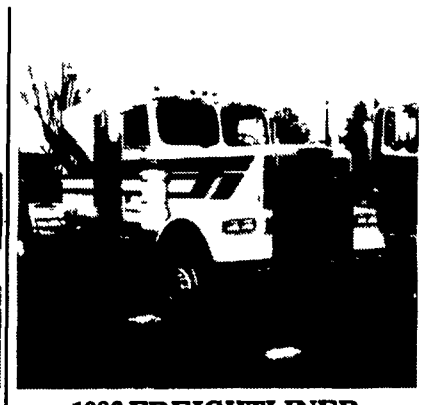

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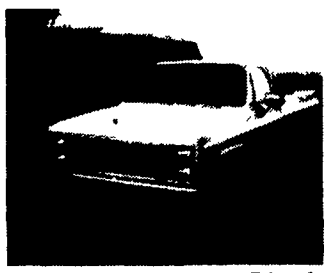

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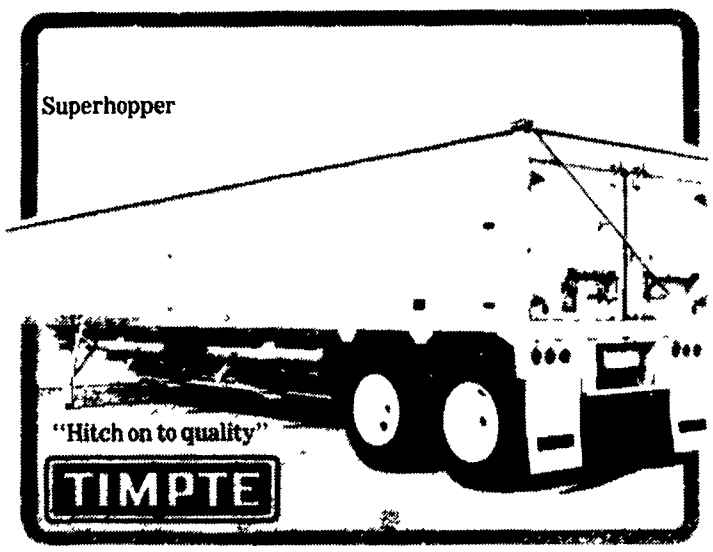

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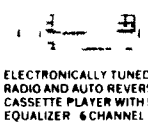

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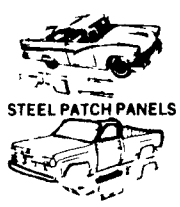

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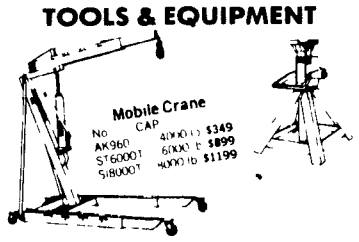

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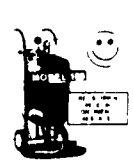

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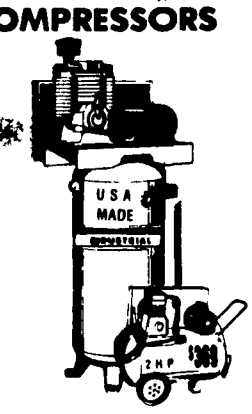

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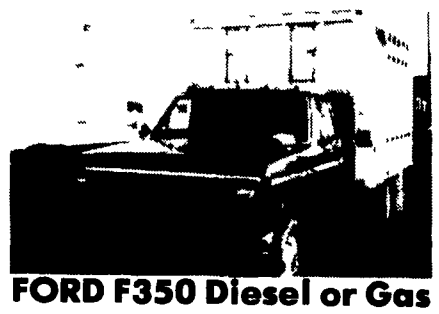

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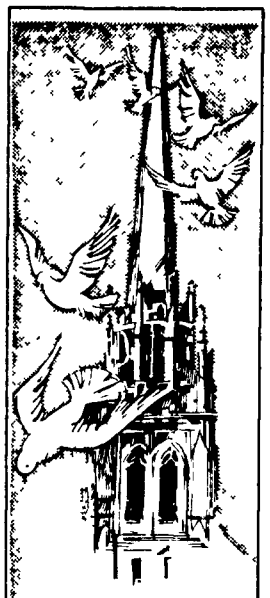

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10 74 WOODED acres N C PA hunt/retreat $6,750 (W168)

41 56 ACRES heavy timber prime hunting good frontage $31 200 (W169)

81 ACRES Joins State Land pond timber subdivision potential $60 750 (W170)

167 ACRES (2 lots) cherry timber prime hunting, walk to State Land $125 250 (W172)

CAMP/RETREAT/RETIRE Small village in the heart of hunting/fishing/etc low taxes $29 500 (W173)

MONUMENT BUSINESS Be your own boss 1200 s f building all equipment a going concern $56 900 (W111

MILK PROCESSING PLANT complete dairy operation modern barn farmhouse garage/repair shop operating retail store & milk route $275 000 (D489)

BAR/RESTAURANT 10 rental rooms/apartment going business $68 500 (W132)

FREE LISTS
ERA-Homestead Realty
23 E Ave
Wellsboro, PA 16901
717/724-7161

ERA

36 REAL ESTATE

For Sale: 102 acre modern dairy farm, 55 stall stanchion barn pipeline, etc. Large house with apartment. Lebanon County, PA, 717-865-2208.

For Sale: 280 acre dairy farm, 200 tillable. Southern Chester Co. 215-932-9021

For Rent
164 Acre Limestone Dairy Farm. Large stone dwelling, $1,500 per month.
Carlisle, PA
Call
717-243-6195
9 AM - 5 PM

KEY
REAL ESTATE, REALTORS
Hanover
Gettysburg
York and
Westminster

This Adams County Dairy Farm has everything needed to set you up in the dairy business 64 free stall 26 stanchion barn with pipeline manure pit equipment sheds automatic bunk feeder large brick home L 5041 15
717-632-6400

FOR SALE 15A farmette, 2 barns, house, 32x57 All built since '82. 2 mis. SE of Dundee. David Swarey, R2, Dundee, NY 14837.

For Rent: 2 bedroom, ½ double house, near Manheim Auto Auction, $200/month, security deposit. 717-564-1478

Snyder County
Amish Farm, 40 acres tillable, house, barn, tobacco barn, and silo, all 5 years old. Private $88,900.

House, barn, on 54 acres, largest cider press in the county. Near Amish community.

130 acres, 90 tillable, 3 BR home, pond, barn for steers. $175,000.

115 acres, fruit farm, 2 homes, barn. Will subdivide. Established Fruit Farm.

130 acres, 105 tillable, 2 homes, barn for steers.

145 acres, 100 tillable, 12 room home, and barn. $140,000.

125 acres, house, barn, and cabin.

Integrity Real Estate
717-837-1061

FOR RENT· Cayuga Co., NY, 314 acres, 200 tillable, level land, river frontage, 123 free stall barn w/parlor, 4 bdr home, heifer barn, 5 acre lake, 3 silos, plus other buildings. Send Inquiries To: P.O. Box 52, East Norwich, NY 11732

FARM FOR SALE BY OWNER: 52 tie stall barn, large young stock section with heifers on ties, 2 good silos, pipeline milkers, 8 room main house Also small 2nd house, gravelly loam soil, 138 acres, 115 tillable. Call 607-565-4960

CENTRAL NEW YORK
400 Acre dairy farm with large free stall barn, silos, outbuildings, shop, milking facilities plus feed lot. 4 Modern houses, rental units, in-ground swimming pool, ponds, streams, gravel bed & woods. Suitable for development.

315-673-2128, Owner

312 ACRE FARM...

Offering one of the best farms on the market today with a realistic price. Approximately 312 acres at under $1,600/acre.

Farm is located in Middletown, DE, but adjacent to the Maryland state line.

Several years back it was operated by a dairyman who also loved to ride horses and train dogs in the wooded areas and along the creek. Tillable ground excellent Matapeake soil. Several small areas with good topography for alfalfa, hay or pasture. Development has come to the area and this option looks attractive for the future. $495,000.

KENT CREEK REAL ESTATE
301-648-5656

FARM FOR SALE
124 Acres in Hopewell Twp., Cumberland Co. Includes 40 Tie Stalls, Calf & Heifer Barn Three Silos And Nice Home.
Call For Farm Inspection:
(717) 423-5490
Call Omar For More Information:
(717) 354-6066 - 7 AM to 5 PM

LEHIGH COUNTY
Historic Gentleman's Farm
Beautiful 85 acre farm, ideal for horses; stone colonial farmhouse, ex large bank barn, house and buildings are set back from main road 16 acres fenced pasture, with stream, 2 ponds, picturesque location This farm was the site of the 1756 famous indian raid on the George Seislauz family. Price: $245,000

Free Brochure w/Photos Available Upon Request

new pennsylvania realty, inc.
Gary Coles, Farm Broker & Appraiser
717 386 5000 or 215 398 2559
Box 123 Route One New Ringgold PA 17960

How much is your farm worth?
Thinking about selling your farm or just curious about the value of your property? Then fill out this coupon and mail to ERA Hop Usner & Associates, Inc for a market study No charge or obligation for this service
Coupon is valid within 50 mile radius of Ephrata
Name _____
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City _____ **State** _____
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717-738-2005
717-627-1230

CENTRAL PENNSYLVANIA FARMS, FARMETTES, LAND & CABINS
We presently have one of the largest selections of farms, farmettes, land and cabins available in central Pennsylvania We have over 50 exclusive listings

Our Farm and Land Department would be happy to mail a free, detailed farm and farmette list or land and cabin list to you

See the December 27 and January 10 issues for a complete farm inventory.

FARM AND LAND DEPARTMENT
Fred Strouse (814) 364-1705
Don Myers (814) 422-8111
Mel Rockey (814) 466-6688
(Bedford) Richard D Reed (814) 839-4271
(Huntingdon) Rachel Port (814) 669-4194

KISSINGER LEONARD & BROWER
Frederick J Kissinger, Realtor
William H Leonard, Realtor
Ralph F Brower, Realtor
245 S Allen St.,
State College, PA 16801
(814) 234-4000

PENNA FARMS

FRANKLIN CO.

55 Acre Limestone Soil, milking barn pipeline milkers bulk tank lounge area hay & implement storage Additional acreage available No dwelling

300 Acre Dairy double four Herringbone parlor free stall barn bank barn lagoon limestone soil never failing spring 6BR dwelling

107 Acre General, 86 acres tillable 10 pasture 3 wooded large bank barn wagon shed with attached garage 3 BR brick dwelling 2 streams

CUMBERLAND CO.

115 Acre modern dairy farm complete new dairy facilities 48 tie stalls pipeline milkers (automatic takeoff) 1 000 gal tank 20x70 silo w/unloader bank barn 40x70 implement building w 3 automatic door openers modern 4BR dwelling LIMESTONE SOIL

75 acre dairy, 26 tie stalls bulk tnak stable cleaner silos w/unloaders implement storage new furnace 4 bdr dwelling farm pond beautiful view of the mountain SOLD

95 Acre General Farm, 2 story Colonial brick and aluminum dwelling w/brick fireplace and car port Nestled among the trees Secluded from neighbors but adjacent to mountain for the individual wishing to have horses for riding Fertile sandstone soil 20 acres wooded w/timber large horse barn w/16 stalls and other outbuildings

Charles Wenger, GRI, 263-0945
George Ebener 249-4979
Wilbert Diehl 776-7707
GEORGE L. EBENER & ASSOCIATES REALTORS
139 W High St., Carlisle, Pa
Ph. (717) 243-6195

Hollypark trailer w/living room tip out, in excellent condition, must be moved. 717-993-3324 or 717 993-6252

Wanted to rent or rent with option to buy: Hog and beef farm in Northern PA. 717-664-2122 after 5 p.m.

SHEETZ REAL ESTATE
RAY N. WILEY INC.
323 W. Main St.
Mount Joy, PA
CALL 653-1481
FARM LISTINGS NEEDED
Farm Salesman - Eugene Kreider

ALL STEEL HOME FOR SALE
LUSTRON 2 bedroom house 31x35 ready to be assembled on your lot. House is built of steel framework and steel panels with porcelain enamel covering, green in color. Everything you need to put the complete house together is there, including the heating system, bath fixtures, kitchen, all interior walls, trusses, roofing. House is designed as a 2 bedroom with LR, DR, Kitchen, bath, and utility room. Ideal for a starter house or tenant house. Asking $9950.00 with free delivery. For more information or details, write

John Cooper
115 Main St., Salunga, Penna. 17538
or call **717-898-2259**
or 898-8102

So. Northumberland Co. & Surrounding Counties-

No Money Down. 44 acres, 2 homes & barn, 20 tillable. $89,000. Call Peter.

No Money Down. 35 acres. $35,000. Call Peter.

No Down. 33 acres, 10 tillable, balance wooded against mountain $1,500/acre. Call Peter.

No Down. 100 acres, 75 tillable, prime land, $1,500/acre. call Peter

No Down. 75 acres, well-maintained Christmas tree farm 45,000 trees 1-4 yrs. old. $1,500/acre. Call Peter.

181 Ac. Beef Farm, 150 tillable, lge. brick home completely remodeled. Built in 1851, $275,000. This farm can be bought in smaller acreage. Call Peter.

500 Ac., 365 tillable, Grain Farm, $579,000. Call Peter.

PETER B. **CORTELYOU**
Real Estate Herndon, PA 17830
Peter B. Cortelyou, Broker 717-758-9177
Bob Yarger, Sales Assoc , 717-648-6217
George Wolfgang, Sales Assoc , 717-648-3201

SOUTHERN LANCASTER COUNTY DAIRY FARM
A high productive 141 acre Dairy Farm located 2 miles South of the Buck along Route #272. Below are listed a few of the many features:
- Main barn 140'x40' with 60 tie-up stalls
- 2 Harvestore Silos and 1 stave all with auto unloaders
- Modern pipe line with 10 000 gal Dari Kool tank
- Automated liquid slurry storage system
- Pole building measures 40'x70' for dry cows and heifers
- 2 1200 Bu storage bins for shelled ear corn
- Large 98'x40' Implement shed, cement floor, 14' ceilings 6 large sliding doors, 3 car garage, and roomy workshop
- The house consists of 4 bedrooms, 1½ baths, oil fired hot water heat, modern kitchen & bath.
- All buildings and mechanicals are in excellent repair

Priced at $4,200 per acre
Call Hurst Williams REALTORS Today
for additional information
717-569-8245
Claude F. Bechtold ML 12028

JUST LISTED!

Two of the finest New York Valley farms that we have seen in a long time.

#1 - Has a fantastic location, flat, well-drained gravelly loam soil, big fields, large home in excellent condition, 90 cow conventional barn, 2" pipeline, 1,000 gal. bulk tank, 3 concrete silos, heifer barn, machinery building. Priced right.

#2 - 250 acre, 210 tillable, fantastic view, fields are large and well drained, beautiful home in excellent condition, 80 cow conventional barn, big tie stalls, new free stall for young cattle, new machinery building, very good second home

These farms are top show place farms - The Very Best.

Posson Realty
Norwich, NY
607-334-9727

PERFECT ENTERPRISE Adjoining State Land 6 ...ned cabins w/range, refrig & sink Also ... completed residence on 5 3 acres in Pine Creek Valley $65,000 W-1171

GARDENERS DELIGHT - Home, business with separate living quarters, 12x60 2 BR trailer, storage garage w/FDA approved canning kitchen, fruit trees & berry bushes plus large garden area Market your own produce, etc from stand at road - Lots of equipment included Morris area $29,900 W-1172

CAMPER VACATION HOME - Fully furnished, ready to move into large living room w/fireplace, kitchen 2 BRs & full bath, gas heat & spring water close to State Land, secluded wooded 2 9 acres Pike Twp - Potter Co , $28,900 W-1169

Century 21

THE REAL ESTATERS OF WELLSBORO
"Serving Tioga & Potter Counties"
East Ave., Wellsboro, PA 16901
717-724-5921
Call or write for free list

Southern Huntingdon Co. Farms

Germany Valley

2 adjoining farms, totaling 316 acres, approx ½ tillable, has old stone house, large limestone caverns over 200' long w/underground stream coming out of ground w/trout reproducing in it Would make great recreational development or farming $850 per acre

Germany Valley Dairy Farm

With 8 room & bath brick home, 136 acres w/approx 100 acres tillable Limestone ground, 40x100' modern barn w/47 stanchions, 40x72' free stall barn, pipeline milk system, 1200 gal bulk tank, 20x80' & 14x65' concrete silos w/unloaders, 40x80' & 20x60' implement building w/corn cribs along side, many other extras $195,000

Near Three Springs

Dairy farm, 175 acres w/150 acres tillable, large barn w/44 stanchions 2 nice homes stream & good spring on property Many other extras $285,000

Near Shirleysburg

65 acre farm w/large frame 2 story house 50x76 barn, 16x50 concrete silo w/unloader, 60' concrete feed bunk, 2 wire corn cribs, milkhouse, bulk tank spring fed pond $79,000

Colonial Real Estate Agency
814-447-5511

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55 ACRE DAIRY FARM NORTHERN PENNA.
* Pipeline, etc.
* 3 Bedroom House
* Good Producer
Reduced to the mid 60's
KINGSWAY REALTY
717-569-8701 or
717-464-2233
Ask for Carl

FOR SALE BY OWNER

167 acre northeast Pennsylvania modern dairy farm. Mostly tillable w/2 houses, nearly new free stall & dry cow facility, 4 silos w/unloaders, automatic feeding, double 6 totally automated parlor, 1500 gal. bulk tank, large new machine shed, 150 head of cattle, some machinery included
717-222-4432

POSSIBILITIES UNLIMITED with this unique, residential/commercial property. Circa 1791 restored stone residence has 8 rooms, 2 fireplaces. Horse stable and riding rink. Antique dealers note: barn has been converted to auction house with showroom, auction room, and storage. 28 acres with 1400 feet of frontage on U.S. Route 11 North of Shippensburg. $298,000.

LIMESTONE FARM - 95 acres, more or less. 6 room house in good repair. 2 floor barn, wagon shed, machinery shed, concrete silo. About 75 tillable acres. North of Shippensburg. $225,000.

LIMESTONE FARM - 82.875 acres, more or less. 8 room remodeled farm house. Barn Private setting. $153,900. House can be purchased with 9.4 acres for $89,900.

Hale REAL ESTATE
14 West King Street
Shippensburg, PA
717-532-2814

FOR SALE - TIOGA COUNTY DAIRY FARM

200 Ac., 120 tillable, mostly alfalfa ground, 50 Tie stalls, 2" Delaval System, Pipeline, Long sealed silo and concrete stave silo 2-family house, 6 mi. South of Wellsboro. Your's for only $169,000 - $150,000.00 assumable 5% mortgage to qualified buyer. Cows and equipment also available. M-924

FARMETTE IN CHARLESTON TWP.

Good house & barn. New addition with 30 stalls, and good barn cleaner. Immediate possession of house, barn presently rented $100 per mo. thru May. Excellent for horses, beef, or dairy. 8.8 acres, tillable & pasture. Just - $37,500.00 M-809.

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717-662-2138 717-662-2363

SANFORD G. LEAMAN, REALTOR
717-569-4264
Auctioneer
ESTATES • APPRAISALS • LIQUIDATIONS
101 White Oak Dr , Lancaster, PA 17601

JUNIATA CO
75 Acre farm with 63 acres of very productive soil mostly level Seven room frame house recently remodeled with full insulation new wiring plumbing bath and kitchen Central heat Near state gane land and the Juniata River Immediate possession possible Call Dick Crawford at 717 734 3673 for more information

115 Acre dairy farm 47 tie stalls gutter cleaner milk tank 3 silos and other farm buildings Large modern farm house never failing stream Located along hard surface township road For more information or appointment to see call Dick Crawford at 717 734 3673

BEDFORD CO
Large 640 Acre modern dairy operation Double 8 Surge milking parlor 54 stanchions 135 free stalls and lose housing for 70 plus cows 6 silos 3 sets of buildings with modern implement sheds ponds road frontage and houses This operation is ideal as a family operation or a syndication Call Sandy Leaman at 717 569 4264 or Ernest Holsopple at 814 479 7682

BRADFORD CO
A modern 40 stall dairy barn with lots of extras in the feature of this 78 acre farm located in Bradford County It also includes a second barn machinery shed garage and a nicely remodeled farmhouse If interested call Barbara LaMont at 717 297 2619

434 Acre modern dairy with 220 tillable marketable timber on 140 acres There is a 68 tie comfort stall barn 3 modern silos and two small tile for oats etc Plenty of young stock area Land is excellent and lays nice Call Barbara Lamont at 717 297 2619

SNYDER CO
232 Acre modern dairy with 2 sets of buildings lots of silos new implement shed Can be bought separately as a 100 acre farm or a 132 acre farm Call Sandy Leaman for a breakdown and separate pricing

LANCASTER CO
94 Acre beef or horse farm close to Lancaster Limestone soil Ami...a Old stone house circa 1820 Call Sandy Leaman at 717 569 4264

153 Acre fruit farm with apples plums cherries peaches strawberries etc Call Sanford Leaman at 717 569 4264 for all details

ROTHSVILLE
5 Acres with barn house and out buildings Ideal horse farm $160 000 More acreage available Call Sandy Leaman at 717 569 4264 or Pat Kauffman at 717 896 8958

LYCOMING CO
178 Acre Modern Dairy Farm with 3 pipeline 2 bulk tanks stanchion and free stalls Good spring pond Excellent state of cultivation Some assumable FmHa money if you qualify Four bedroom house with modern kitchen Call Sandy at 717 569 4264

Large farm no barn older houses stream and very private Call Fred Clark at 717 523 7201 This one could make an ideal nursery and or Xmas tree farm Sloped right for it

CLINTON CO
Amish area of Mill Hall Steer and hog farm 80 acres mostly all tillable See it today Call Ken Young at 717 426 1098

In the Amish section near Mill Hall is an excellent beef farm with 77 acres and most all tillable Call Ken Young at 717 426 1098

PERRY CO
Located in Perry County is this 168 acre farm Back a grassy lane lined with trees is 96 tillable acres that have been kept mowed Stream runs through property Early 1800 s stone home Have your own country estate with this park like setting Call Pat Kauffman at 717 896 8958 to see

Executive Colonial brick farm house Restored and modernized in a delightful manor There is a total of 180 acres large bank barn 57 acres of woodland other out buildings that have many uses This fine farm is a must for the beef farmer sheep farmer or just a great place to live and rent the land out Sandy at 717 569 4264

TIOGA CO
Nestled in the mountains of Tioga County is this modern 46 cow dairy farm with 400 acres of flat to ...olling land It includes four machinery sheds garage tenant house and a beautiful farmhouse If interested call Barbara LaMont at 717 297 2619

Union Co
White Deer Township Very desirable mountain property with 27 acres and a cabin Phone and electric to cabin Near state game land and excellent trout stream forest and water Access road to property Call Fred Clark at 717 523 7201 for more information

We would like to take this time to express our thankfulness for your patronage this past year, and to wish everyone a happy thanksgiving

---

UNION CO. $370 PER ACRE
"Adventure In Your Own Mountain"

189 Ac., frontage on Penns Creek. Opportunity for several home sites. Beautiful mountain land which borders Bald Eagle State Game Forest. Turkey & Deer hunting.

JUNIATA CO.

82 Ac. over ½ wooded, fertile fields, stream, deer hunting, frontage on Rt. 35. Priced in the sixties.

BERKS CO.

12½ acre farmette, brick 3BR home, approx. 5 acres tillable, balance pasture and woods, small barn, rural country living, minutes to Rt. 422. Priced to sell. $78,900.

WEST LANCASTER CO.

Poultry Farm- 3 Poultry houses with auto. feeder & waterer, currently set up as layer operation, 108,000 bird capacity, all located on 20 acres plus. Zoned agri. Immediate possession, good return on investment. Easy financing. $298,000.

Layer House Complex, over 100,000 bird capacity, auto. feeders, zoned agric., on 20 acres, easy access off Rt. 441. Financing available. $298,000.

41 Acres of open ground, zoned agric., sub-divided partially, tremendous potential to investor, 1 acre lots and a couple 10 acre lots included. $165,000.

SNYDER CO.

40 Ac., 12 fertile acres, remainder woods, spring, old log house, located in a quiet scenic back country setting. 1½ hours from Lancaster. Fifties.

KINGSWAY REALTY
REALTORS
1770 Oregon Pike
Lancaster
Phone 717-569-8701
or Ephrata 717-733-3344
REALTOR

REDUCED $155,000

Situated on 106 acres with 105 acres tillable Highly productive w/frontage on 2 roads. Two large tobacco sheds, 100,000 bushels of grain drying operation, large pond & a 6 stall horse barn. Also includes restored Brick farmhouse w/large modern addition. Only 10 minutes from Lancaster $495,000 Call 717-464-4700

MARTIC TWP.

76 acres general farm featuring 60 acres of tillable high producing soil, 4 bedroom farmhouse, barn, 12x60 silo, tobacco shed, 40x100 equipment shed and 10,000 cage layer house. $243,000. Call 717-464-4700.

ASSUMABLE 5% MORTGAGE

200 acre "turnkey" dairy operation including 60x80 stanchion barn, 24x48 corn barn, 36x50 and 36x60 implement barn, 2 pole barns attached to main dairy barn, 32x48 and 24x24; 12x35 and 20x60 silos. 147 acres of tillable productive loam soil Large stone house w/new roof and new kitchen Located just outside Mifflintown and near Mennonite school This is a great opportunity to get started in the dairy business. Priced at just $1,345 per acre. Call Jeff at 717-786-2131 or 717-548-2469

18th CENTURY STONE

Farmhouse, circa 1830, recently repointed. Beautifully situated on 6.6 acres of rolling country side, privacy without isolation. Herb garden and 36x21 barn for horses. This enduring home has been gracefully updated for today's lifestyle. Featuring 3 BR, 2 baths, summer kitchen, first floor solarium-family room w/wood stove and a two-car garage, $195,000. Call 717-786-2131.

Century 21
American Heritage
(Formerly Emory Wagner)

"We Serve Your Farm Needs"

Call

BERKS CHESTER AND MONTGOMERY COUNTIES CALL DAN MESSNER AT 215 286 2971

YORK ADAMS SOUTHERN CUMBERLAND AND FRANKLIN COUNTIES CALL JERRY K STERN AT 717 246 1471

SOMERSET CAMBRIA BLAIR HUNTINGDON AND FULTON COUNTIES CALL ERNEST HOLSOPPLE AT 814 479 7682

UNION AND MONTOUR COUNTIES CALL FRED CLARK AT 717 523 7201

COLUMBIA AND NORTHUMBERLAND COUNTIES CALL PAUL PETE ZEISLOFT AT 717 437 2305

LANCASTER COUNTY CALL KEN YOUNG 717 426 1098 OR SANDY LEAMAN 717 569 4264

DAUPHIN COUNTY CALL PAT KAUFFMAN 717 896 8958

BRADFORD COUNTY AND LYCOMING COUNTY CALL BARBARA LAMONT 717 297 2619

JUNIATA PERRY FRANKLIN COUNTIES CALL RICHARD B CRAWFORD 717 734 3673

36 REAL ESTATE

DO YOU REALLY WANT TO SELL YOUR FARM?
For personal service, contact
Van Cleve Real Estate
915 Mondale Rd., Lancaster, PA 17601
Phone 717-392-3032

FOR SALE BY OWNER
243 acre farm, 140 tillable. House is 7 yrs. old, 4 bdr. Equipment shed 35x80. 92 tie stalls 2 silos, manure pit. Cortland Co., NY
607-849-3121

WANTED
1 to 2 Acre
WOODED LOT
In No. Lancaster County. Please Contact After 6 PM
(717) 859-1054

LEBANON COUNTY!

Very nice operating orchard - 31 acres (m/l) with 17 acres tillable. Top of the line soils, 6½ acres of fruit trees. Bank barn for storage. 24x28' block building to merchandise fruit. Plus, a 4 bedroom remodeled farm home, very good condition, clean and neat...nice income producing property.

THIS IS ONE TO SEE!!

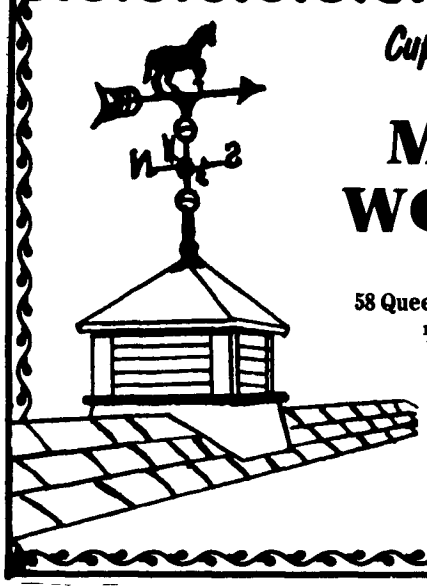
RICH BRANDT FARM REAL ESTATE
2230 5th St. Highway, Reading, PA 19605
(717) 274-3622 - office - (215) 378-1122

POULTRY COMPLEX
New York State

400,000 layer capacity, 150,000 growing capacity, in-line grading, feed mill w/truck scales, 400+ acres, Snavely buildings, fully equipped.

Write:

Lancaster Farming
P.O. Box 366, K-132
Lititz, PA 17543



Cupolas and Weather Vanes

MANNIE'S WOOD SHOP

58 Queen Road Gordonville, PA 17529
¼ Mile South of Intercourse

Ventilate and Decorate

Perry Co. Farm

50 Acre Horse Farm - 3 Paddocks - Bank Barn - Pond - 2½ Story Aluminum House with 3 Bedrooms and 1½ baths. Convenient Location Only 3 Miles Off Rt. 322 & 22 at the Newport Exit. Asking $129,500. For More Information Call Agent Larry W. Fry After Hours at 567-6773.

GREEN ACRES REALTY CO.
Corner of 4th & Walnut St.
Newport, PA
Phone 717-567-3312

SALE OF FARM BY UNITED STATES GOVERNMENT: 117 acre farm located in Southern York County, Pennsylvania only 3 1 miles west of Interstate 83 along PA route 216 and approximately 1 5 miles northeast of Glen Rock This farm is currently set up for use as a dairy farm, but could easily be converted to use for beef, sheep, horses, or just a rural residence

The farm contains ± 80 acres of good rolling cropland, ± 25 acres of pastureland, ± 5 acres of woodland with the remaining ± 7 acres used for the farmstead and wildlife areas There are 2 houses, each 2 stories, and in good condition, a 64 cow freestall barn, with bunk feeder, concrete barnyard, and attached DeLaval 6 stall milking parlor, 2 poured concrete silos (16'x60' and 20'x60') with unloaders, and an 800 gallon ESCO bulk tank The entire dairy complex was built in 1971 There is a small manure lagoon next to the barn This property was formerly owned by H Laverne and Judith Hess

An open house will be held to show the property on Wednesday, January 7, 1987 from 10 00 A M to 1 00 P M Snow date will be Monday, January 12, 1987 from 10 00 A M to 12 00 P M

The farm property contains highly erodible land and will be sold subject to the requirement that the successful bidder must contact the Soil Con servation Service (S C S) so that a conservation plan for the highly erodible land can be developed PRIOR to the completion of the sale

BID DEPOSIT: Bid must be accomplished by certified check, cashier's check, postal money order, bank money order or bank draft, payable to Farmers Home Administration (FmHA), for at least ten percent (10%) of the total bid Preference will be given to a cash offer (where FmHA does not provide the financing)

RATES AND TERMS: A minimum of ten percent (10%) down payment is required with terms on the remaining credit not to exceed 25 years or a period for which the property will serve as adequate security, whichever is less The interest rate will be determined at the time of approval of the credit requested based upon Farmer Program ineligible interest rates published in FmHA instruction At the current time, the rate is 11 6250% Any changes before the time of approval will be available upon request at the FmHA office Rates and terms available to the bidder considered eligible for FmHA regular loan programs may vary

TERMS OF SALE: Sealed bids are invited and will be accepted until 4 30 P M EDST, January 13, 1987, at the Farmers Home Administration office 124 Pleasant Acres Road, York, PA, and will be opened publicly at 10 00 A M EDST, January 14, 1987, at the York office The Government reserves the right to reject any or all bids This farm will be sold without regard to race color religion sex, age national origin or marital status This property is being sold subject to the Environmental Regulations of The USDA

For further information and bid forms please contact the Farmers Home Administration 124 Pleasant Acres Road, York PA, telephone 717 757 7635

53 Acre Farm
For Sale By Owner

Large house, 2 kitchens, 5 bedrooms, 2 baths, basement. Chicken house for 10,000 layers in operation, 40x70 barn, 32x48 shop. Nears Orrstown, Franklin Co., PA.

717-530-1490
or 717-532-2731

SPECIAL SELECTION NY FARMS AND COUNTRY PROPERTIES

APPROXIMATELY 135 ACRES: River bed flats w/barn Historical Mohawk Valley $140,000

PICTURESQUE COUNTRY SETTING: 3½ acres Ranch style home w/unusual floor plan w/lots of character Wood-Mode kitchen w/breakfast area, dining room overlooking sunken living room w/cathedral ceiling, fireplace, 3 bedrooms, many closets, 1½ baths, 2 stall garage w/7 rooms (Ideal income property previously vet clinic) Horse barn, more plusses excellent condition Only $77,000

CHRISTMAS TREE PLANTATION: Montgomery County 98 acres, breathtaking view Call for details

150 ACRE BARE FARM located in historic Mohawk Valley Horse, barns, shed, etc Ideal gentlemen's horse farm or working farm $110,000

VALLEY'S FINEST If it's a farm you want, try this one for size 427 acres- 300 tillable, 127 wooded 34'x274' cow barn, 2 concrete silos, heifer barn, 2 stall machinery shed, 750 gal bulk tank with pipeline, 4 ponds on property 2 family home features aluminum siding, modern kitchen & baths & 2 stall garage Call for details today! Asking $235,000

PICTURE PERFECT: 268 Acre dairy farm in Herkimer County Scenic view, 44'x170' barn with milking parlor 2 story heifer barn, 42'x102' machinery building & attached garage/workshop 3 cement silos, 1000 gal bulk tank Lovely 3 bedroom home w/inground pool Owner on Dairy Buyout Program $385,000

WELL KEPT 141 ACRE BARE DAIRY FARM 36'x120' stanchion barn (59 head capacity) 3 cement silos, bulk tank & barn cleaner Remodeled 4 bedroom home plus 3 stall garage $195,000

OVERLOOKING VALLEY 126 acres, 3-6 bedroom house, barn 44 tie stalls 20 stanchions Beautiful view $92,000

GENTLEMAN'S FARM 142 level, rolling acres, 3-4 bedroom house, very good condition Barn, horse barn, 30x60 laminated rafter building, garage, machine shed, smoke house, pond on property $180,000

SUPER SECLUSION 230 acres 4 bedroom home in private setting bare farm barn 62 wood stanchions, 550 gal bulk tank, 1½" pipeline milks 62 (DeLaval) horse barn, machinery shed, saw mill owner financing $195,000

SHOWPLACE DAIRY 233 acres with 5 bedroom Colonial home inground pool, excellent condition 2 story barn (holds 85 head) 40 V-tie stanchions 2 silos, unloader (Van Dale) DeLaval 600 gal bulk tank & 2" pipeline can milk 52 Herd consists of approx 100 head 50 55 milkers, balance heifers calves & open Machinery goes with sale All in excellent condition Call for more details $290,000

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• 500 Acre Dairy Farm 450 tillable features 184 freestall dairy barn 125 stall heifer barn, double 8 milking parlor, two 1 000 gal bulk tanks two 100' bunk feeders three 24x60 and one 20x60 concrete silos w/unloaders lovely 4 BR home w/kitchen, LR FR office den laundry & bath 2nd home 3 BRS & bath Spring fed pond & much more Call for details $650 000 Cattle & machinery available

• 188 Acre 130 T Dairy farm with large double 13 room house 3 car garage 86 stall barn 1 000 gal tank, pipeline milker barn cleaner large machinery shed $165 000 Cattle & machinery available under separate contract

SUSQUEHANNA COUNTY

• 565 Acre dairy farm Features 145 stall barn heifer barn large machinery shed 2½ story house with kitchen dining room living room office family room, laundry 3 bedrooms 1½ baths 2nd House Modern 3 bedroom with kitchen dining room living room and bath Apartment with modern kitchen living room dining room 3 bedrooms 1½ baths 3rd House New 2 bedroom kitchen living room and bath $750 000

POTTER COUNTY

• 116 Acre hunting ground 30 acres open, balance wooded borders 2 roads & river Possible Owner financing $50 000

LEHIGH COUNTY

• 100 Acre dairy farm, 80 tillable features 90 cow free stall barn w/freshening area and bulk feeder, 36 stall milking barn w/pipeline milker, bulk tank, barn cleaner Lovely 2½ story home large kitchen, DR, LR, laundry, 5 BR, 2 baths, full attic & basement, (2) 20x60 Harvestore silos, 20x80 concrete w/unloader Stream & pasture, level land, $300,000

TIOGA COUNTY

• 800 Acre Dairy Farm 400 T 2 very good, lovely homes 83 stall dairy barn Steel pipe line, 1000 gal tank and barn cleaner (2) 16x60 and (1) 14x40 silos with unloaders Large heifer barn $365,000 Full line of machinery and cattle available

• 122 Acre 100 T dairy farm, 47 tie stalls with 24 free stalls 800 gallon tank, barn cleaner pipeline milker 20x60 concrete silo with unloader, good house with kitchen, dining room 2 living rooms 3 bedrooms and bath $110 000

• 126 Acre farm 70 T 45 pasture balance wood land Land only Near above farm $65 000

SCHUYLKILL COUNTY

• 234 acre woodland tract joins state gamelands borders Rt 81 & secondary road Pine Grove area good hunting area call for details, $175 000

Foot Baths

BY
DR. L.J. HUTCHINSON

Use of a liquid or powder foot bath has been recommended for foot rot prevention and control. Properly used, a foot bath will cut down the spread of the foot rot organisms, though it won't help much on the cows that are already affected.

Foot bath use can also help toughen up soft feet. Cows kept in a wet-floored free-stall barn or in muddy lots may have excessively soft feet. In some stanchion barns, just the opposite is true. Feet get too hard, especially the front feet.

For milking parlor herds, a liquid foot bath in the return alley works well. Concrete sides should be 5 to 6 inches high and the length should be at least 5 feet. For stall barns, a dry foot bath can be constructed using a frame of 2-by-4s to the width of the entrance and exit doorway. Make sure it's long enough so cows walk through, instead of jumping on it.

A liquid foot bath solution is prepared with either: copper sulfate powder, one pound in five gallons of water or 3 to 5 percent Formalin solution, (four to six ounces Formalin in one gallon water). A 10 percent Formalin solution can be used for a short period of time (not more than 5 days) to toughen hooves and initiate footrot control, but continued use will excessively harden hooves.

A dry foot bath can be prepared using 80 to 100 pounds hydrated lime and 5 lbs. copper sulfate powder (don't use copper sulfate crystals).

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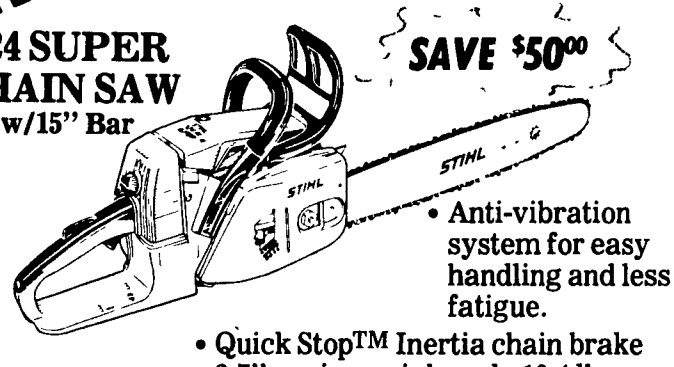

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New spring wagon, ready for summer '87, $1,500 Paul F. Wenger, 190 S Farmersville Rd, Leola, PA 17540.

7 yr old standardbred carriage horse w/snap Takes a lot of road Traveled 52 mis Dec. 21 $650 J.P Beiler, Noble Rd., RR1, Box 319, Kirkwood, PA 17536 Lanc. Co

Patz tank spreader w/o injector, agitator, like new. Best Offer. 38' JD conveyor Fred. Co. 301-775-0159.

1980 Honda 185 three wheeler, motor just overhauled, fenders in good shape. Berks Co 215-689-9354.

Approx 400 bales 2nd cutting alfalfa, $95 ton, 32' JD PTO elevator, $300. Northumberland Co. 717-275-4725

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150 large young Embden geese, for breeding or eating, your choice, $6.00 each. Cumberland Co 717-243-2901

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1000 PSI pressure washer w/Briggs engine, 6KVA generator powered by Deutz diesel, $800 Stephen S. Fisher, Box 114, Lincoln University, Pa. 19352.

NI 279 cutditioner, 9', $1,895.; Grimm PTO tedder, $750; NH 256 rake, $1,295., V snow plow, $175.; 861 Ford, $2,775. 717-354-0266

Closed carriage roller bearing, good shape to be sold at Samuel R. Beiler's sale, Thur., Jan 8th. Eli S. Beiler, 137 N. New Holland Rd, Gordonville, Pa. 17529.

1978, 3 axle tagalong flatbed 24' trailer, inspected, 13,500 gross Jefferson Co 814-371-6044

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Hydraulic swinging lift for pickup, $75; Columbia cook stove w/copper water tank, $200. Perry Co. 717-957-3350

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Set of tracks for JD 45 combine; one 13.6x38 tire Robert Marriott, RD1, Perkiomenville, PA 18074. Montg Co 215-754-7188.

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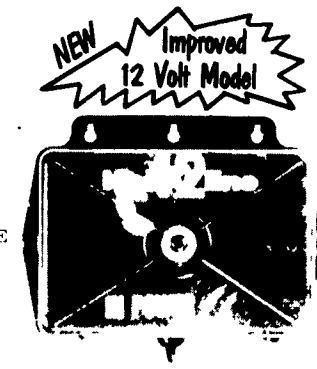

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Steel tractor wheels 55" hi 16" wide 33½" centers, $275; Oliver Radex 3-14 trip bottom trailer plow, $175. Lanc. Co. 215-445-5090.

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DeLaval 74 and 75 vacuum pumps, 1½ receive jar, 210' of glass pipeline, 3 Surge milkers, electric pulsators and controlar. Lanc Co. 215-484-4195

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Power conveyers, fireproof file safes combo's forklift carpet rod. Make Offer. Cecil Co., MD. Potters kick wheel. 301-287-6072

Antique horse sleigh, good condition. Columbia Co. 717-458-6474.

'66 Chevy C-60, cab & chassis, 4+2 trans., PS, no rust. After 6PM, 717-687-8217.

Netherland dwarf rabbits, various colors. Pet quality to show quality, $10 and up. Berks Co. 215-582-2587.

Peafowl (Peacocks); 1986 hatch, few adult. Blue, black shouldered, pied, white. Satisfaction guaranteed. Richard Burger, Newark, DE. 302-994-0508.

8'x16' tandem axle trailer, $450; 3 pt. fork lift, $350; Limblopper air pruners, $50; Rem 7MM-08 w/3x9 scope, $225. Adams Co. 717-677-6536.

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Grass hay, 5 ton, $70. a ton, no rain. Bucks Co. 215-766-8925

NOTICE

All present and future Kawasaki engine owners.

We wish to take a moment, on the behalf of Kawasaki and all of our dealers, to thank you for your support in the past few years. Your support has enabled dealers to buy in larger quantity thus enabling them to buy better which lowers the cost for the end user. We encourage you to buy engines from your local dealer as he is the one who can help you best in an emergency but if you have a service problem that your local dealer cannot handle please contact us. We have a large parts and engine inventory to cover the complete Kawasaki engine line.

Also, due to a weaker dollar, all imports, especially Japanese products have risen in price in the past 6 months. Kawasaki has also had a price increase as of Oct. 1, 1986 but due to the cooperation of the dealers we are able to keep the old price to all our dealers until March 30, 1987.

Kawasaki Engines have not and will not have a price increase until March 30, 1987. This only applies to engines sold by dealers of the distributor listed below.

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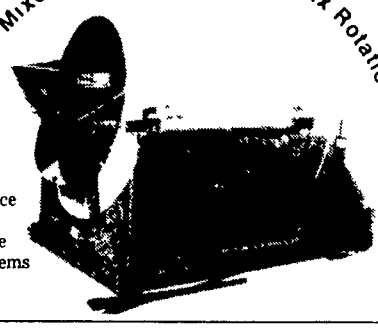

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- Hay Feeders
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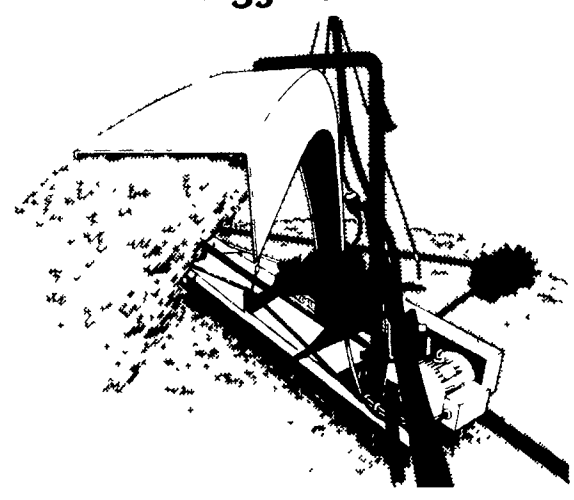
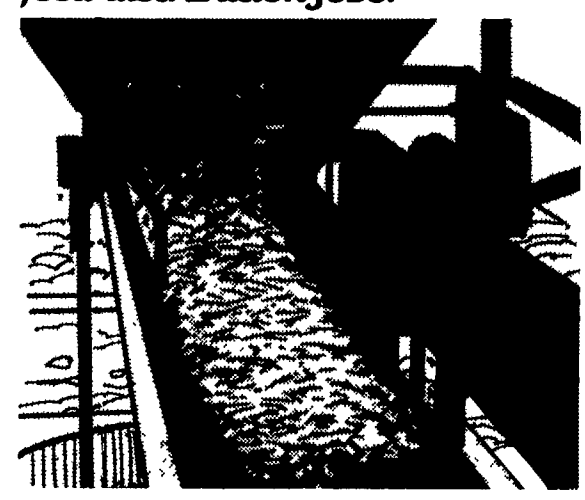
It takes performance to tame today's tough jobs:

YOU & VAN DALE.

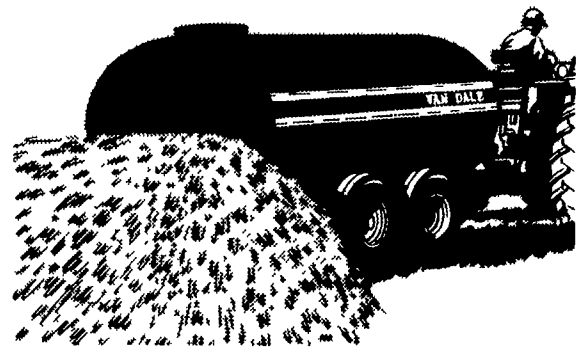
Performance for tough silo-unloading jobs:



Performance for tough feed-distribution jobs:



Performance for tough manure-handling jobs:



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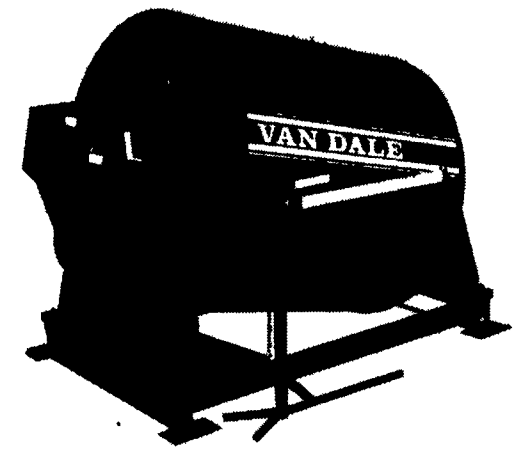

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2008 Horseshoe Rd., Lancaster, PA
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MAILBOX MARKET FOR SALE

12" Atlas metal lathe, 3 and 4 jaw chucks, good cond , $795 Lanc Co 215-267-3276

NH model 66 baler, PTO driven, runs but needs minor repair, $350. or Best Offer Lanc Co 717-626-0747

AC 7045 CAPS triple, Hyd., AM-FM, 1500 hrs., nice, $13,800 Wayne Co 717-689-2540

White 264 12' disc; MF 6 btm. spring trip plow, White 5400 no till planter, 4 row seed monitor, liq fert., insecticide. Luz Co. 717-477-5533

Pheasants Golden, Red Golden, Amherst, Reeves, also Indian Fantail Pigeons and Mille Fluer Banties. Cumb Co 717-423-6620

FREE German Shepherd, spaded female, very friendly, tan and brown, 3 yrs. old 717-733-8021.

Farm 391A or 85A, 94A, 170A, 44A, 4 farms, separate or 391A, 5 ponds. Columbia Co , Pa 717-784-7649

JD front cultivators, 2 row for model 3020 tricycle, $75 or Best Offer Cape May Co. 609-861-2309

NH PTO spreader, 120 bu.; Solo gas powered dust and leaf blower 215-926-3440

Electric incubators w/auto. egg timers for poultry , ducks, bantams, azpprox. 75 eggs, $45 Post Paid. Happiness Hills, Addison, NY. 14801

(1) 4 nipple hog waterer, freeze proof, $75., Paneled doors, 36''x79½'', $30.; 24"x79", $15., Flush door 36"x80", $30. 717-464-3106

Cab to fit 3020 and 4020 JD tractors w/roll guard. Salem Co. 609-358-3923

Jack Russell Terrier puppies, imported from England, champion bloodlines, pet & show quality, great hunters/pets, $200 -$350 Lanc. Co. 215-593-2085

(2) overhead garage doors, 12' wide, 13' high, $100., 12' wide, 10' high, $75 Both good condition. Lanc Co. 215-445-4971

7½ KW LP gas generator w/100 amp auto transfer panel, only $1,800 Lebanon Co 717-866-5972

1964 Mercedes 190 dsl., runs well, uses oil, $600 Lanc Co. 717-687-6412.

Wood saw, like new condition, front tractor mount with new rubber belt, $135. Southern York Co. 717-993-6455

One door gas refrigerator, $50 or Best Offer. Feed blower with feeder and pipes as used on feed trucks, $300. Lanc Co 717-354-5696.

Air-tight Columbian coal or wood stove, 12'-14'-16' gates. 717-665-5664

NI #825 flail chopper; also parts for easy spin washer. Lanc. Co. 717-872-2646.

Ford 4000 loader, ext. hydraulics, PS, '80 Dodge pickup, 6 cyl., JD hay fluffer, NI #7 corn husker. Berks Co. 215-682-6137

Mohair for handspinners, very clean, raw or washed. Call or write for prices. Richardson's, RD3, Box 272, Columbia Crossroads, PA 16914. 717-297-4582.

Four rims 10x15 Fits Fords Tierod end fit Ford 150 manifold, headers 302 11 in pressure plate new info Lanc. Co 717-684-6423

MAILBOX MARKET WANTED

Front tractor tires 7.50x16, 8 ply, 80% tread or better Dauphin 717-566-0731.

Good used concrete bunker silo walls, 10 or 12' high. Montg. Co 215-256-9343.

Experienced person for family dairy Top wages, position available immediately, future in mind. Room for single, mobile home, couple. 215-869-9267

Pheasants wanted Reeves, Amherst, Swinhoe, Blue Eared. Ed Yoder, 3731 Millers Rd, Street, MD. 21154. 301-836-1213

Backhoe parts for Ford 4000 industrial backhoe New Castle Co. 302-239-7363

JD disc model 110 or 115 12' Also oats York Co. Edwin Johnson. 717-862-3741

Used silos, any size, Fickes or Lancaster. Franklin Co 717-532-2599

Wooden Sunday School Chairs, nursery or beginners size. Write W Lomas, RD1, Box 194, Morgantown, Pa. 19543.

Oliver 2 way plow. Write to. Samuel King, 201 Widdowson Rd , Oxford, Pa. 19363.

Candlewick. unusual pieces, clock hurricane lamps cordials for my own collection, Elvis Presley records, good condition W Smith, 1205 E Main St , Riverhead, NY 11901

Christian lady to live in w/elderly couple, nice farm home, room, board, salary York Co 717-382-4629

Lightning rods and cable from old barn, will climb. Cash. J. Riss, 1209 Eagle, Newtown, Pa. 18940. Bucks Co.

Austin Healy sportscar, in restorable condition Centre Co 814-364-9977 eves

Rocker chaft for GM 478 gas motor, will consider buying truck for parts ; AC grader for parts Bedford Co. 814-784-5872

15-100A orchard w/retail sales on well traveled road, 4-5 bedroom house, outbuildings, apple, pear semi dwarf trees 718-426-0695 eves.

Buggy sleigh carriage brass name plates, books adv. buggys; Cast iron seats. Bill Schall, 23 Florida Ave , Apollo, Pa 15613-9704

Projecter wanted, either photo or slide, give description and price Sid Lucas, 2631 Orthodox St., Philadelphia, Pa. 19137-1626

Needed: 30 to 35 cows for April and a used pipeline. Centre Co. 814-422-8982

Small farm tractor w/3 pt. hitch, good condition, w/or without equip. York Co 717-244-1879

Square box 2 seated roller bearing black carriage, in fair condition. Jacob B. Stauffer, RD3, Box 154, Selinsgrove, Pa. 17870. Snyder Co.

Guns, old and modern double barreled shotguns, double barreled rifles and combination shotgun and rifle. York Co. 717-993-2288

Part time hired person, prefer youth, now till spring Transportation provided. Jacob S Stoltzfus, RD2, Airville, Pa 17302

Rug loom Hammer mill for flour, cereal Old pictures Montgomery Co 215-367-6388

New or used storm front market wagon, and/or spring wagon, state price and condition All replies answered T Holliday, Rt 4, Box 244, Waynesboro TN 38485

Old used pine lumber from barn, house, etc Must be in good condition No white paint Lanc Co , 215-445-6231

Attic Flooring and Log Houses. 717-626-4520

White Pekin Ducks Adams Co 717-642-8221 after 5 p.m

Walk in cooler or refrigerated truck body. Also looking for breeding age heifers. John L Stoltzfus, Box 212-A, Atglen, Pa 19310

Cab for 4000 Ford tractor 301-334-9205

Belt pulley for 1942 Oliver 70 Mark Erickson, Box 356, Crosswicks, NJ 08515. Burlington Co 609-298-3677

Old weathervanes, especially animal shapes, any condition Box 21, Lititz, Pa 17543 717-626-7854

NH self propelled bale wagon, in excellent condition & reasonably priced Prefer S-1049 Virginia 703-877-1047 after 8 p.m

Old mason jars, crocks, kitchenware, farm tools, fire extinguishers, lightning rods, lanterns, etc. Henry Crss, Highway 79, Morganville, NJ 07751.

2200 gal. liquid manure spreader. David Peachey, RD2, Box 147, Oakland, MD. 21550. Garrett Co 301-334-4094

Jersey cow for large family, must be the best Also large Wells Cargo enclosed trailer or similar kind. 609-478-4040

Two or three 350-500 lb beef type feeder steers. Lanc. Co. 215-267-6534.

35 good used cow mats. Lanc. Co. 717-354-7423.

Collets or end mill holders w/#9 brown and sharp taper for vertical milling machine. Dauphin Co. 717-692-2493.

Oliver parts for Model 60, also equipment for power lift, plows, cultivators, etc. Lebanon Co 717-867-5263.

Jake brake for 903 V8 Cummins engine Franklin Co 717-532-6540.

Used oil furnace (hot water) Adams Co 717-337-3284.

Hay, straw Harford Co 301 692-5048

2 wheel band saw Fred Co 301-775-0159

Mallard ducks, also rouens for pets Lebanon Co 717-865 2589

MAILBOX MARKET NOTICE

We adopt and/or buy exotic animals Deer, Pygmy Goats, Elk, Buffalo, Leopards, Cougars, Peafowl, etc. Berks, 215-374-2114

Brick rancher Deal of a lifetime. 717-933-5675.

Will do your hauling. corn, hay, equip., chicken manure, etc. 15 ton capacity. Lanc Co 717-548-3294

FREE: 20 radiators. Also furnace that works, you take out. Gideon Beiler, 115 Horseshoe Rd , Leola, Pa. 17540.

Storage for farm equipment, boats, cars, RV's, Wakefield, Lancaster Co $25 up. 717-392-0311 or 548-3952

Sale Reports

A Public Auction of real estate and farm equipment was held December 27 by Clair Rexroth and Nancy L Rexroth, near Martinsville on Hakehollow Road, York Co., Pa. There were approximately 600 people at the sale.

The 10 acres in Lower Windsor Twp., York Co. was sold for $91,000 and it included a ranch style house, block garage and pole barn.

Other items sold were: Int. 664 tractor $2475, 1973 Chev. flat bed dump $4800, J.D. 3 pt. 3-bottom plow $310, Myers 3 pt. sprayer $260, stock feeder $75, hydraulic cylinders $45 to $110, cut-off saw $125, drill press $300, Int. 1450 Cub Cadet & mower $2000, Stihl weed eater $140, Stihl chain saw $80, toy Caterpillar machinery $25 to $45 each, Gibson 20 cu. ft. freezer $290, Frigidaire 15 cu. ft. freezer $170, darkwood bedroom suite $850, automatic washer & dryer $100 each, modern Ridgeway grandfather's clock $375, curio cabinet $260, dark maple sideboard w/hutch $425, potato table w/umbrella & 4 chairs $300 and dark maple dining room table & 4 chairs $635.

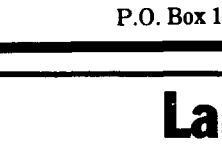
The auctioneer was Blaine N. Rentzer.

We're Buying Quality!

Farmer's Cheese Co-Op Now Offers Premiums For Extra Quality Milk. We Want The Best Quality Milk Because Quite Simply, The Best Quality Milk Makes The Best Quality Cheese.

With the use of **analytical and computer** technology, we will pay you (based on the cheese and cream market) what a hundred pounds of your milk will yield in cheese and cream.
Farmer's Cheese Co-Op will be paying its farmers on a bi-monthly basis, plus offering a group hospital insurance.

Quality Milk Costs More But We Think It's Worth It.



If you want more for your milk -
CALL (412) 946-8729
Ask For Ron or Jack

Farmer's Cheese Inc.

P.O. Box 198, New Wilmington, PA 16142 (412) 946-8729

MAILBOX MARKET AD FORM

Only ads submitted on this official form will be published in our mailbox markets

Please NO PHONE CALLS

(Attach Your Mailing Label Here)

Check One:

For Sale _____ Notice _____ Wanted _____

1	2	3	4
5	6	7	8
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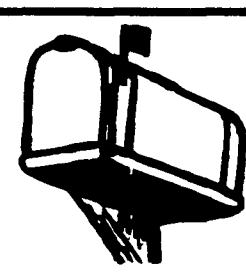
13	14	15	16
17	18	19	20



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Limit your advertisement to 20 words, area code must be added to phone number and, due to repeated requests, please include your county for buyer and seller convenience, all advertisements must be mailed to the office by Monday or same will be held over for next week's paper, no business ads accepted

Include your Lancaster Farming mailing label and mail to

Mail Box Mark.
Lancaster Farming
P O Box 366
Lititz, PA 17543
No Phone
Calls Please

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Subscription Service

• CHANGE OF ADDRESS?

Please give us 2 weeks advance notice Cut label from current paper and attach in space provided write in your new address below Changes will be made as close to requested date as possible

• Entering a NEW Subscription?

Check the proper box and fill in your name and address Attach your check $8 50 per year or $15 00 for two years in PA MD DE NJ NY VA and WV (All other areas $15 00 per year, $26 00 for two years) Payment must accompany order Allow three weeks for delivery

• RENEWALS

To insure proper credit on all renewals please attach your mailing label from current paper to space provided and check the proper box below

No refunds

• OFFICE HOURS

Monday & Tuesday 8 a m to 5 p m Wednesday Thursday & Friday 7 a m to 5 p m

When writing us about your subscription please attach your Lancaster Farming mailing label here and mail the whole form to:

LANCASTER FARMING,
P.O. Box 366, Lititz, Pa. 17543

PLEASE SEND LANCASTER FARMING:
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$8 50 - 1 YEAR
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$15 00 1 YEAR
$26 00 2 YEARS

NEW SUBSCRIPTION
CHANGE OF ADDRESS
RENEWAL

ENCLOSED IS A
CHECK CASH MONEY ORDER

(To help correctly code your address please furnish COMPLETE address As an example include number of the dwelling street name city and state When appropriate include other specific information such as suite apartment floor box number etc If you have an R D please include Box Number)

NAME _____
STREET ADDRESS _____
RD # _____ BOX # _____
CITY _____ STATE _____
ZIP +4 _____ – _____ COUNTY _____

Sale Reports

A Public Auction Sale was held December 27 Lloyd O. Whitehead, trustee. The property of Denton Trucking, Inc. and Richard Perry Mezick was sold at Hobbs Rd.-Market St., Denton, Md.

The 12 acre property improved by an office building and a saw mill was sold for $41,000. Another property with a house on 20 acres of highland and 30 acres of swamp was sold for $84,200.

Other items sold were: 1980 Mack truck $15,000, 1980 Mack truck $9300, 1979 Mack truck $9500, 1979 Mack truck $7400, 1970 Mack truck $3800, 1977 Mack truck $6100, 1984 Chev. S10 pickup $3800, 1983 Olds Firenza $3300, 1978 Macks for parts $2600 & $5800, 1976 Mack for parts $4600, 1979 Bobcat $21,700, Fiat Allis 345B $16,000, Fiat Allis 545B $12,600, 6 dump trailers $5000 to $9700, flats trucks $1100 to $4000, carriage $2000, Mellot log turner $1350, Mobark 36-debarker $2500, Tyron Berry 215 feed $1100, and Fulgham 60" chipper $1800.

Pete Richardson Auction Sales conducted the sale.

XXX

A Public Auction of the former inventory of Billmyer's Jewelry Store was held December 27 by the Ephrata National Bank at the Akron Fire Hall, East Main St., Akron, Lanc. Co., Pa. There were 400 registered bidders at the sale which will be continued on New Year's Day.

Some of 250 wallets, 500 bracelets, 200 pins, 800 rings, 350 watches, 2500 necklaces, 1200 pair of earrings, 130 Cross pen and pencil sets, 40 jewelry boxes, 60 wall and mantle clocks, 75 alarm clocks, 250 silver and pewter items and 100 baby accessories were sold on the 27th.

Other prices included: 14 carat gold heart necklace $140, Accutron men's watches $50 to $125, ladies' watches $50 to $135, man's two-stone diamond ring $200, diamond wedding band set $250, woman's diamond wedding band $250, pair of diamond dangle earrings $260, set of diamond earrings $145, .20 carat diamond ring $225, .15 carat diamond ring $160, .21 diamond ring $295, .25 carat diamond cluster ring $240 and .18 diamond cluster ring $240.

The auctioneers were T. Glenn and Timothy G. Horst.

Public Auction Register

Closing Date Monday 5 00 P M
of each week s publication

JANUARY

SAT JAN 3 - 9:30AM Antiques, Collectibles, Crafts & Coins. Located at the Brickerville Fire Hall, Brickerville, PA E.M Murry Associates, Aucts

SAT JAN. 3 - 10AM Farm Eq , Trucks, Grain Dryer Located 8 mis W of York, PA, along Rt 30 W of Thomasville, PA Larue and Ruby Shellenberger, Owner Blaine N Rentzel, Auct 717-764-6412

SAT JAN 3 - 10:30AM Antiques, Farm Eq for Mr Charles Goforth, Commissioner's Rd., (Rt 581), Daretown, NJ Ralph D Hughes, Auct.

MON. JAN. 5 - 10AM Farm Eq. N of Wapakoneta on State Rt 501 to the Buckland-Holoen Rd., turn W , first farm on the north side. Karl & Becky Whetstone, Owners Schrader Real Estate & Auct Co., Inc

WED JAN 7 - 2PM Equipment, Parts & Accessories, Tools, Showcases and Jeweler Supplies Brickerville Fire Hall just off Rt 322, approx 8 mis W of Ephrata, Lanc Co , PA Terms by The Ephrata National Bank T. Glenn & Timothy G. Horst, Aucts.

THURS. JAN. 8 - 9AM HH, Antiques, Shop Tools Lanc. Co., PA, 2½ mis. NE of Intercourse on New Holland Rd. From Rt 340 go. N. 1 mi on New Holland Rd., 2½ mis S on New Holland. Samuel R Beiler Steve Petersheim & Steve Jr , Aucts.

THURS. & FRI JAN 8 & 9 Large Two Day Sale of Farm Eq , etc , at our place of business, 1 mi E of Marion, PA, off Rt 81 Ralph W. Horst, Manager

FRI JAN 9 - 10AM Horse Sale New Holland Sales Stables, Inc., f Holland, PA Abe Diffenbach, Manager

SAT JAN 10 - 9AM Full Line of Farm Mach , HH, Antiques Lanc Co , PA. 6 mis E of Intercourse, 1 mi W of White Horse along Rt. 340, 15 mis E of Lanc. City. Hershey & Magerurite Kurtz Steve Petersheim & Steve Jr , Aucts

SAT JAN. 10 - 9AM PA All Breed Gilt Show Farm Show Bldg , Harrisburg, PA, Small Arena. PA Co-Op Swine Breeders Assn

SAT JAN. 10 - 9AM Antiques, HH, Tools, Car & Van. 490 Howard Ave , Ephrata, PA Corner of Pine St & Howard Ave. Terms by. Wm. L. Bachi Estate. T. Glenn & Timothy G. Horst, Aucts

SAT JAN. 10 - 9:30AM Sheet Metal Eq , Trucks, Roofing & Building Supplies, Tools. S of Interstate Rt 78 at the Rehresburg Exit #6, Berks Co., PA. Travel 4 mis S. on Rt. 419 at Exit or travel 7 mis. N. of Rt. 422 at Womelsdorf on Rt. 419 to 4 Points Hotel. For Jay L. Zeigler Dennis F. Wagner, Auct.

SAT. JAN. 10 - 9:30AM Farm Mach. Kessler Produce, Rt. 524E, Box 1403, Farmingdale, NJ. E. on 195, off at Exit 31B to Rt 524, R. on Rt. 524E, Pass Allaire State Park, around corner onR. Lee Parker, Auct. Norman Parker, Sale Mgr.

SAT. JAN 10 - 10AM HH & Antiques At Rudnick's Sales, Rt. 213, Galena, MD. Estate of Amelia Field Clay Harry Rudnick & Sons, Inc., Aucts.

SAT JAN. 10 - 10AM Trucks, Tractors, Farm Eq , Lawn Tractors Barber Hill Rd., 8 mis SE of Geneseo, 2 mis. SW of Conesus Lake Roy Teitsworth, Inc , Auct

SAT JAN. 10 1PM Farm Toy Auction. The Jack Hussey Collection at the Fire House Museum, Springfield Center, NY Goodrich Auction Service Dave Nolt, Manager.

MON JAN. 12 - 10AM Sharp Late Model JD Equipment. 3 mis S of South Whitley, IN, on State Rd 5 to CR 800S, then E ¾ mi. to auction Steve & Karen Kreider, Owners Schrader Real Estate & Auct. Co., Inc

MON JAN. 12 - 12 Noon Truck, 2 Tractors, Orchard Eq., Bulk Bins, Crates. Midway between Fairfield, PA, and Cashtown, PA, in village of Orrtanna, PA. Adjacent to Knouse Foods Coop. J. Kenneth Biesecker, Owner. C. David Redding, Auct.

Lancaster Farming

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GOOD'S AUCTION
111 North Maple Ave.
Leola, PA. 17540
Hay, Straw & Grain Sales
Every Wed. At 12 o'clock noon
Auction House
#000014-L

CLA-FAN
HOLSTEIN DISPERSAL
FEBRUARY 11, 1987
10:00 A.M.
BARN EQUIPMENT
Located in Lancaster Co., Pa. 1 mile North of Gap along 897.
HERD 11:00

80 head & 38 Registered 4- Very Good, 10 Good Plus, 19 head milking with 1st and 2nd calf, 40 heifers, animals all vaccinated, certified and accredited, rolling herd avg. 85- 18,400, 86- 17,700 3.6 fat.

Herd mostly all off spring of Con-Nol Farms herd.

Auct. Note: This is a great opportunity to purchase production and type foundation animals.

CLAIR & FANNIE BOWMAN
Auct. Steve
Steve Jr. Petersheim
AU001349L

FARMERSVILLE AUCTION
TUESDAY, JANUARY 6, 1987
3:00 P.M.

In Farmersville, 3 mi. east of Brownstown, Lanc. Co., Pa.

3 pc. dark bookcase bedroom suite; 4 pc. waterfall bedroom suite; bunk beds complete; cherry dresser; pine single bed complete; 2 pine chests of drawers; 3 pc. blonde bedroom suite; maple end tables; mah. night stand; good double & single bedding; green gooseneck rocker; walnut poster bed; cedar wardrobe; chests of drawers & dressers; 4 pc. walnut bedroom suite; walnut chifferobe; kneehole desk; grey china closet; brown vinyl recliner; box lots; etc. etc.

This is only a brief list.

WE SELL ON COMMISSION

Call JOHN J. RUTT
(717) 354-5095

Auctioneer: Lester Weaver
AU-982-L

DISPERSALS
COMING UP

Jan. 8, Household Goods, Antiques, Samuel R. Beiler
Jan. 10, Farm Machinery, 90 Ton Ear Corn, H H. Goods, Antiques, Hershey & Marguerite Kurtz
Jan. 15, Hi Grade Holstein Herd, Farm Machinery, 49 Acre Dairy Farm, David & Barbara Stoltzfus
Jan. 21, 59 Head Hi Grade Holsteins, Milk Equip., David I. Stoltzfus
Jan. 22, 2 Acre Real Estate Ranch House, Barn, Blacksmith Shop, Leon & Katie Peachy.
Jan. 29, Lonevale Reg. Holsteins and Farm Equip., Amos & Lydia Smoker.
Feb. 11, Cla-Fan Reg. and High Grade Holstein Dispersal, Clair & Fannie Bowman
Feb. 17, Farm Machinery, Mules, Samuel & Rebecca Esh
Feb. 18, Farm Machinery, Horses, Jacob Beiler
Feb. 24, Full Line Farm Machinery, Int.-JD Tractors, Jacob & Ada Dienner.
Feb. 25, Hi Grade Holstein Herd Farm Machinery, Aquilla Stoltzfus.
Feb. 28, Farm Machinery, Horses, David B. Zook.
Mar. 4, Farm Machinery, 18 Head Of Top A1 Heifers, Ben S. & Mary Lantz.
Apr. 4, The House Of His Creation Benefit Sale.
Apr. 25, Geet Ministries Benefit Sale.

For Complete Auction Service
CALL
STEVE PETERSHEIM
717-786-4624

PUBLIC AUCTION
OF FARM MACHINERY ON
SATURDAY, JANUARY 10, 1987
at 9:30 A.M. Sharp
Kessler Produce, Rt. 524E, Box 403,
Farmingdale, New Jersey.

DIRECTIONS: E. on 195, off at Exit 31B to Rt. 524, R. on Rt. 524E, Pass Allaire State Park, around corner on R.

TRACTORS: 1980 IHC #1586 w/cab & duals, 1976 Ford #2600, 2-1955 A.C. "G" w/cult & extra parts, 1969 Ford 2000, 1946 Ford 8N, 1949 Ford 9N, 2 - 1964 M.F., 1964 JD #2510, 1953 Case "VAH" cult., 1944 Case "SC."

TRUCKS: 1974 IHC 24' body w/cooler, 1966 Ford F600 w/body, 1975 Ford 24' body w/cooler, 1978 Chev. pickup, 1975 Chev. Van, 1972 Ford pickup, 1975 Ford F100 pickup, 2 old trucks.

EQUIPMENT: IHC 20' wing #485 disk harrow, IHC #700 7 bot. plow, sprayer, 4 unit transplanter, 2 - 4 row plant Jr. seeders, Stanhay precision seeder, Tew veg. washer & grader, roller elev., pallet jack, steam jenny, air comp., Miller welder, floor jacks, 2 nitrogen side dressing mach., 2 planter power units, plant thinner, 3 pt ht Ford cult., scraper blade, Ford fork lift, JD 3 bot. plow, JD cut harrow, sub soiler, 8 transplanter units, 6 row transplanter frame, 2 old manure spreaders, 3 pt ht roto beater, 3 pt ht fork lift, 3 pt ht planter lifter, 2 - 3 pt ht scoops, liq. fert. spreader, air blast sprayer, old sprayer w/Jeep mtr., belt conveyor, Ford loader, JD grain drill, 2-64" bed makers, 2 carbide guns, 10-2 wh. carts, 2 hand staple guns, foot cont. staple gun, chain hoist, anvil, wood stove, gr. gun, 25'x100' greenhouse frame w/heater & fans, Briggs & Stratton 8 hp generator, hand tools, dipper, many misc. articles.

IRRIGATION: 3 Chrysler pumps, elec. 50 hp pump, 2-1000'-4" wheel lines, 3000'-3" pipe, 2000'-4" pipe.

Lunch will be available on the premises.
The seller or auctioneer are not responsible for any theft, injury or accident of any kind on sale premises.
TERMS: N.J. Res. Cash or Good Check w/proper I.D. Paid in Full Sale Day. Out of State Buyers: Cash or Guaranteed Funds or Current Bank Letter of Credit stating amount you can spend up to at the Kessler Sale.
This Ad will appear only once

Sales Manager--
NORMAN PARKER
609-758-8603

Auctioneer- Lee Parker

PUBLIC SALE

of

Household Goods • Antiques • Farm Equipment

SATURDAY, JANUARY 17, 1987

10:00 A.M.

Location: Cumberland Co., Pa. - 6 miles north of Newville along Rt. 233. Sale signs posted day of sale.

Antiques & Household Goods

Butter churn w/stand; Kerosene lanterns; wooden buckets & tub; 2 flat top trunks; oak bed; old bench; 3 grindstones; wooden table; mahogany rocking chair; wooden rocking chair; sofa; stereo (as is); buffet; china cabinet w/drawers; dressing table w/drawers; farmbell; several sets of andirons; misc. glassware & other small items; treadle sewing machine; 6 wooden matching chairs; cane chair w/high back; wicker baskets; bottles, jugs, crocks, jars; sausage press; recliner; king size mattress; cider press; wooden tubs; wall mirror; crib; suitcases (some complete sets); milk cans; Underwood typewriter; flower pots & vases; 2 old wagon wheel hubs; old wagon wheel w/light fixtures.

Kock Maple Butchering Block
One Horse Sleigh
Farm Equipment

MF 175 Tractor D. W.F.; MF 135 tractor, gas, w/loader; Hesston PT10 Haybine; Tye No-till grain drill; MF 3 bottom plow; Walsh 200 gal. field sprayer; MF No. 12 baler w/thrower; MF 130 manure spreader; MF 8' blade - 3 pt.; Pequea hay tedder; Smucker elevator; MF rotary mower; horse-drawn plow; cattle oilers & cattle gates; round hay feeders; Roto-tiller; single & double trees; MF 3 pt. mower; 3 pt. field sprayer; post hole digger; cattle racks for pickup; cattle scales (portable); Perry harrow; 2 row cultivator; Ferguson 3 pt. harrow; Ferguson 3 pt. disc; Ezee Flow 3 pt. spreader; hay wagon; hay rake; 2 water tubs; feed cart w/lid; air compressor; gas tank for pick-up truck; wagonload of misc. items; several tons of mixed hay.

Terms: Cash or good check, I.D. required.

Order of Sale: Household Goods, Farm Equip.

Sale by:

MARGARET R. MOORE

R.D. 2, Newville, Pa.

Conducted by,
Sensenig Auctioneering Service
Ph. 532-9160 or 776-5054
Lic. #AU-001803-L
Clerks - Eberly & Weaver

Lunch Stand Reserved - Not Responsible For Accidents

PUBLIC SALE

HOUSEHOLD GOODS- ANTIQUES
SHOP TOOLS- CARRIAGE

THURSDAY, JANUARY 8, 1987

9:00 A.M.

Located in Lancaster, County, PA, 2½ miles Northeast of Intercourse on New Holland Rd. From Route 340 go North 1 mile on New Holland Rd., 2½ miles South of New Holland.

HOUSEHOLD GOODS- ANTIQUES

2 Servel gas refrigerators; 2 Caloric gas stoves, Maytag washing machine, Warm Morning space heater; 3 oil space heaters; extension table; 2 sofas, cushion recliner; secretary desk, old; slant top desk; 4 cushion rockers; bedroom suite with box spring & mattress; 3 double beds with box spring & mattress; 2 corner cupboards, cane bottom nursing rocker, oak wash stand, oak dresser with mirror and towel rack; chest of drawers; oak swivel chair; wooden high chair, oak library table; childs table & chairs; old, 6 matching plank bottom chairs, 6 matching cane bottom chairs, 6 matching cane bottom chairs, 6 matching plank bottom with design chairs; studio couches; old wood chest; wicker baby coach, excellent condition, grained blanket chest, 2 drawers; 2 family records dated back 1821-1877 in frame, excellent condition; 4 trunks, 1 camel back, kerosene lights, 1 with green base; **pair of childs rocking horses**; iron penny bank; 2 mantle clocks; Plymouth & Gilbert; large rocker, 2 tin match boxes, bed spreads; hand stitched comforter; linens, blankets, pillows, 4 sets pillow covers sewn in designs & initials, pin cushions, old scarfs, doilies, dresser scarfs, 2 dolls dressed; old books, Mast family record book, treadle sewing machine, 3 suit cases, wooden handle ice cream dipper, apple peeler, gas lanterns, throw rugs, some braided, hanging magazine rack, early grain harvesting equipment book, set of flo-blue dishes with cups & saucers, gravy boat fine china childs tea set, 7 piece water set apple design, glass large turkey on nest, 6 plate setting china, 6 pieces rag carpet, old shopping basket, clothes rack dryer, old shaving case; sad irons, Maytag washing machine, hardware scales 5 benches, crocks, wheel chair, folding chairs, porch glider & flower pots

SHOP & GARDEN TOOLS, ETC.

½ ton chain hoist, anvil, bench vise, sledge hammer, axe, dual wheel wheel barrow, bag wagon; large block & tackle, hand drill press; full line hand tools, Handyman jack; garden tools, lawn chairs, lawn roller, lawn swing, tool box; storm front carriage with roller bearing, full set driving harness; buggy blankets, miscellaneous items not listed, milk cans, platform scales

Owner:

SAMUEL R. BEILER

Auctioneer:
Steve
Steve Jr **Petersheim:**
717-786-4624
Lic. #AU-001349-L

Food On Premises

Auctioneer's Note: Items mostly all in real nice condition

Public Auction Register

Closing Date Monday 5 00 P M
of each week s publication

MON & TUES. JAN. 12 & 13 - 10AM PA All Breed Gilt Sale, Farm Show Bldg., Harrisburg, PA, Small Arena. PA Co-Op Swine Breeders Assn Harry Bachman, Auct

THURS. JAN. 15 - 9:30AM Big Potato & Dairy Farm Auction for Chas. Flock & Sons, Rt. 34, Colts Neck, NJ. Col. Fred R. Daniel Aucts, Inc

AN IMPORTANT EQUIPMENT

AUCTION

Teitsworth Sale Lot-Groveland

SATURDAY, JAN. 10, 1987

10 a.m.

Trucks-Tractors-Farm Eq.
Lawn Tractors

Sale will be held on Barber Hill Rd., 8 mis. SE of Geneseo, 2 mis. SW of Conesus Lake, watch for auction arrows.

There is some top quality here, 31 pieces from one owner, plus other consignments.

TRACTORS: Ford 4000 G, 8SP w/heavy duty loader; IH 806 G w/loader; MF 1085 only 1,390 hrs., nice shape; IH 544 D w/utility, sharp; Farmall 300 w/quick hitch plow; IH 656 G; Farmall Cub w/blade; nice Farmall M w/PS; Farmall A w/plow; Belarus 420, 4WD, needs work; AC D19; Case 1070 w/cab; Ford 600.

SKID STEER LOADER: Bobcat 642, 1985 Model, 2 buckets, like new.

TRUCKS AND TRAILERS: 1971 IH 4070 Transtar w/wet line; 1974 IH 4070B Transtar tandem w/wet line; 1975, 28' alum. dump trailer w/32' frame; 1974 Hillman 26' alum. dump; 1964, 35T detachable trailer; older 7000 gal. tank trailer (excellent for storage).

EQUIPMENT: NH 1032 bale wagon; 14' heavy duty offset foldup disk; NH 679 tandem spreader; 518, 519 NH spreaders, tank spreaders; IH 470 wing disk; JD 5 bottom auto reset plow w/accumulator; NH 469 haybine; NH 28 blower; NH 256 rake; (2) self unloading boxes; IH 990 mower conditioner; Swartz 750 mixer wagon; rotary mower and much, much more.

LAWN EQUIPMENT: Cub Cadet 127, 12HP, 42" deck, 42" snow blower, cab, tire chains; Simplicity Model 5008, 8HP, w/blower, 38" deck, rear weights; Jacobsen GT10, 10HP, front blade, 42" deck and chains; Bolens GT11, 11HP, 44" deck, snow blower and chains; Ariens S18H, 18HP, 2 stage snow blower, weights and chains; wheel horse w/deck, front blade and chains.

TERMS: Cash or good check auction day.

Roy Teitsworth, Inc.
Sale Managers and Auctioneer
6592 Barber Hill Rd.
Geneseo, NY 14454
716-243-1563

THURS. JAN. 15 - 9AM 47 Acre Dairy Farm, Hi Grade Holstein Herd, Farm Mach., Milking Eq., Feed. Dauphin Co., PA, 8 mis. E. of Millersburg, 2 NW of Berrysburg form Rt. 25 go N. on Rt. 225 to Shippen Dam Rd. left to Miller Rd. right. David B. & Barbara K. Stoltzfus, Owners. Steve Petersheim & Steve Jr., Aucts.

THURS. JAN. 15 - 11AM Gay Ridge Farm Production Sale of 50 Reg Holsteins. 2402 Green Valley Rd., near Ijamsville, in Frederick Co., MD. From I-70 take Rt. 270 S. to Hyattstown exit. Go 1 mi. to Hyattstown, turn left onto Rt. 355 and go approx. 2 mis. to Rt. 75 (Green Valley Rd.), turn right, first farm on left. Donald Wilcom & Family, Owner. Remsburg Sale Service.

FRI. JAN. 16 - 1PM Annual Winter Swine Sale of 200 Head, 70 Bred Gilts, 50 Service Boars, 80 Open Gilts Located Reno Park Mark Farms, Beavertown, PA

SAT. JAN. 17 - 9AM Personal Collections of 18th & 19th Century Furniture, Accessories & Rugs At residence of Allen Nixon, Birmingham-Mount Meetinghouse Rd Off Rt 630. Pemberton, NJ Back of Homestead Nursery For Estate of Mrs Juliana Newman.

SAT JAN 17 - 9 30AM 70 Acre Farm, Livestock, Farm Eq., Crops. 6 mis. S. of Quarryville, 4 mis N of Wakefield Just E. of Rt 222 along Fulton View Rd Little Briton Twp, Lanc Co., PA Jacob M & Rachel E Stoltzfus, Owners Diffenbach Aucts

SAT. JAN. 17 - 10AM Valuable 74 Acre Dairy Farm, Farm Mach, HH Rt 272 S. of Lancaster, PA, 5 mis S. of the Buck turn W. on Goshen Mill Rd., 2 mis to farm Drumore Twp., Lanc. Co Terms by. E. Wayne & Dorothy Gore Kreider, Kline, Good, Shirk, Aucts

SAT JAN. 17 - 10AM Late Model Farm Eq. King Rd., accessible from either MD Rt. 34 or Rt. 67 just S. of Boonsboro, Washington Co., MD. Gilmore Farms, Mr. & Mrs. Wm F Gilmore. Robert C Mullendore & James G Cochran, Aucts

SAT JAN 17 - 10AM HH, Antiques, Farm Eq Cumberland Co, PA, 6 mis. N. of Newville along Rt 233 By Margaret R Moore Sensenig Auctioneering Service

WED JAN 21 - 9AM Antiques, HH, Car. 148 W. King St., Ephrata, PA. Terms by: Annie C. Weaver. T. Glenn & Timothy G. Horst, Aucts.

WED. JAN. 21 - 10:30AM Hi Grade Holstein Herd, Milking Eq., Feed, Farm Machinery. Lanc. Co., PA, 5 mis. E. of Intercourse, 2 mis. w. of White Horse, from Rt. 340 go S. on Spring Garden Rd., 1st farm. David I. Stoltzfus, Owner. Steve Petersheim & Steve Jr., Aucts.

THURS. JAN. 22 - 1:30PM Real Estate. Approx. 2 acres in Paradise Twp., Lanc. Co., PA, 4 mis. E. of Strasburg along Rt. 896. Leon & Katie Peachey, Owners. Steve Petersheim & Steve Jr., Aucts.

FRI. JAN. 23 - Interstate Milk Producers Closing Out Supply Store from Christiana. Held at Solanco Fair Building J Everett Kreider, Auct.

FRI. JAN. 23 - 10AM Horse Sale. New Holland Sales Stables, Inc, New Holland, PA. Abe Diffenbach, Manager.

FRI. & SAT. JAN. 23 & 24 - 5PM, 9AM Respectively Jacob W. Nauman, Inc Real Estate, Mill Working Eq., Lumber, Hardware Items, Vehicles, Forklift, Industrial Tractor Manheim, PA, approx. ½ mi N of square. Along Rt 72 J Omar Landis Auct Service Jay M Witman

SAT JAN 24 - 9AM Real Estate, Body Shop, Body Shop Eq, Tools, Supplies, Car & Truck. 3 W Woods Drive, Warwick Twp, Lanc Co., PA. At 501 N of Lancaster to Hill Top Motgel, turn W onto Woods Drive Terms by Raymond L Hoover Estate. T. Glenn & Timothy G. Horst, Aucts

SAT. JAN 24 - 10AM Farm Eq. Located Marlow, W. Va., from I-81 N. of Martinsburg, take Marlow Exit to Rt. 11 N. turn right onto Broad Lane to sale Donald Reid, Owner Edgar A. Bohrer, Auct.

WED. JAN. 28 - 9:30AM Modern Dairy Eq. from double 10, double 6 and single 6 milking parlor. All w/Boumatic automotic takeoffs. Terms by Ox-view Farm, Oxford, PA, Chester Co. J. Omar Stoltzfus & Leon Kurtz, Auct

THURS. JAN. 29 - 9AM Registered Holstein Herd, Farm & Milking Eq Lanc Co., PA 9 mis. E. of Lanc City, 2 mis SE of Intercourse on Osceola Mill Rd Amos S. & Lydia Smoker Steve Petersheim & Steve Jr., Aucts

FRI. JAN 30 - 11AM 40 Fresh Cows and Heifers Ulysses, PA Jerry Pirrung, Sales Mgr

SAT. JAN 31 - 8.30AM Tack; 10:30AM Horses Consignment Horse Sale Keister's Middleburg Auct Sales, Inc, Rt 522, 3 mis E of Middleburg, 5 mis W. of Selinsgrove, PA Don & Walt Keister, Owners

SAT JAN 31 - 10AM Farm Eq, Tools, Building Materials Just off Peach Rd (between Ephrata and Farmersville). W Earl Twp, Lanc Co, PA Rt 322 E of Ephrata turn S onto Bethany Rd, turn left onto E Fulton St to Peach Rd Terms by Aaron S Groff & Son T Glenn & Timothy G Horst Aucts

FEBRUARY

MON FEB 2 10 30AM Tractors, Combines, Planters, Implements, Grain Dryers Parkland Farms, Lake Meade, Stoney Point Rd, Adams Co. Midway between East Berlin & Dillsburg on Rt 194 at Red Mount Church turning W onto Lake Meade Rd 1 mi OR Take Rt 94 S from York Springs to Lake Meade Rd thence turning E 3 7 mis then S on Stoney Point Rd Jack Anderson, Owner Clair R Slaybaugh, Auct

FRI FEB 6 - 10AM Horse Sale New Holland Sales Stables, Inc, New Holland, PA Abe Diffenbach, Manager

PUBLIC AUCTION

OF MODERN DAIRY & FARM EQUIPMENT

WEDNESDAY, JAN. 28, 1987

(Snow Date Jan. 31) 9:30 A.M.

Located in Chester County, PA. From Cochranville take Route 10 South approximately 4 miles to Route 896, turn left on Route 896 ¾ mile to Pusey Mill Road, bear left to 2nd farm left. From Route 896 & Route 1 intersection, take Route 896 North ¼ mile to 1st road right (Pennsgrove Rd.), go 1 mile to crossroad, turn left on Pusey Mill Road.

DAIRY EQUIPMENT

2000 gal Mueller tank, 3000 gal Mueller tank **model 4086 King Zeero 500 gal ice maker**, 26 model 2600 EP Boumatic take offs 26 Boutmatic weigh jars **12-model 2700M Boumatic take-offs with meters**, 5 Boumatic vacuum pumps **Delaval plate heat exchanger**, 2 15 gal stainless receiving jars with pumps 32 Dairy equipment parlor feeders 2 Boumatic Fre heaters double 10 & double 6 Herringbone parlor single 6 Surge parlor with feeders 4 5 HP compressors 20 or more guaranteed electric motors from ¾ to 7½ HP **150/100 PT3JM Windpower generator**, 2 80/40 Windpower generators 1000 neck chains & numbers approximately 1 mile of stainless and glass pipe in sizes 1 2 & 3 Numerous other items used in a milking operation

FARM EQUIPMENT

2290 Case tractor with cab 135 HP 6650 Fox self propelled forage Harvester with cab John Deere 346 baler with 30 ejector John Deere #716A & #216 chuck wagon Kools forage blower blower pipe John Deere 410 round baler 6 Chevy farm trucks 2 1960 flat bed 1969 dump truck 3 1970 pickups 4000 gal Butler manure spreader 2 Behlen 1000 bushel wire corn cribs 38 Little Giant elevator Frey Bro portable head jack 2 air compressors waste oil heater wheel aligning rack John Deere heat houser Some equipment may be added or deleted prior to sale

Terms: Cash, Certified Check or Check Approved Prior to Sale Date.
Note: Dairy Equipment purchased within the last 2-6 years.

Sale Conducted For:
OX VIEW FARM INC.
(215) 932-2408

Auctioneers:
J. Omar Stoltzfus AU-001912-L
(717) 529-6301

Leon Kurtz AU-000522-L
(215) 593-5387

Calls received prior to 12:00 noon
Inspection Days - Wed. Jan. 7, 14, 21, 1987
Lunch Available

Public Auction Register

Closing Date Monday 5 00 P M
of each week s publication

SAT. FEB 7 - 10AM 7 acre Farmette & Personal Property. Located Salisbury Township, 1½ mile North of White Horse, turn off of Rt. 340 on Cambridge Rd to the corner of Seldomridge Rd & Kauffroth Rd., Lanc. Co., Pa. Terms By: Mary A Miller. Aucts: Robert E. & Jeffrey R. Martin & Frank L. Steller.

PUBLIC AUCTION

Valuable Sheet Metal Equipment, Trucks, Roofing & Building Supplies, Tools

SAT., JANUARY 10, 1987

at 9:00 A.M.

Located South of Interstate Rt. 78 at the Rehresburg Exit #6, Berks Co., Pa. Travel 4 miles South on Rt. 419 at Exit or travel 7 miles North of Rt. 422 at Womelsdorf on Rt. 419 to 4 Points Hotel.

8' Chicago steel bending brake, 3' Chicago steel bending brake, (3) 4' Connecticut bench model steel bending brakes, 4' Connecticut box & pan steel bending brake, 36" Pexto 16 ga. sheet metal shearer, 36" Mechanical shearer, 43" Pexto 18 ga. pipe rolls, (2) Lockformer 22 ga. Pitts & Acme machine, Lockformer 22 ga. 24" spliter, 4' duct line cutter, Trumps 10 ga. nibbler, 18 station Rotex ¼" to 2" punch, 30" Niagara bar folder, 42" pipe seamer, #1 Beverly shearer, (2) #2 Beverly shearers, Roper-Whitney ½" x ½" punch, (2) Roper-Whitney ¼" x ¼" punches, asbestos cutter, ferrel maker, small anvil, 6" bench vise, 3½" bench vise, pipe threader, pipe hold-down, Pitts seam opening bench machine, Niagara angle pipe crimper, (2) 30" metal folders, Niagara angle stove pipe crimper, Pexto 12" pipe beader w/extra rolls, Pexto wire machine, Pexto turning machine, assorted rolls for beading machine, hammers, tin shearers, ply bars, foot rules, ratchet straps, punches, chisels, ladder & roof jacks, 5-pc. drill bit set, Roper-Whitney #xx punch, Justen impact-driver, (3) 7¼" circular saws, B & D professional saw, saber saws, ½" elec. drill, 3/8" elec. drills, roofing tongs, sodering irons & pot, 50-50 bar soder, 60 1-lb. bars block tin, (12) assorted alum. ladders (16' to 36'), 60' 3-sec. mag ladder, 175 lb. lifting cap, elec. Lad-R-Hoist, Magic-Chef 93,000 btu oil hot air furnace (new), (15) sheets 42" x 48" mineralboard gaf., assorted stove pipe, tool boxes (new & hand-made), assorted paints, Vapor-air central system humidifier (new), 4-sp. ¼ hp blower motors (new), assorted furnace switches & motors (new & used), furnace blowers, assorted galv. & alum. spouting hangers & fixtures, Magastic gas incinerator, ridge vent (new), alum. coil stock, rosin paper, (25) rolls assorted roofing, blind nailing cement, shelving, air tank w/hose & gauge, 51" x 104" work bench w/cabinets & drawers, air orbilal air sander, air grinders, air drills, air sanders, air impacts, air hammer, vise grips, Lencospot spot welder, Miller 355 wire feed welder, vehicle stand, 2 ton service jack, pressure blaster, straight line sanders, 3" air cut-off tool, ¼" air grinder, masking paper dispenser, bench grinder, (9) pair Alcoa 43" forest green shutters, assorted Home Comfort vinyl shutters in white, (60 sq.) assorted roofing shingles, (16 sq.) assorted alum. siding, 10 common nails in 50 lb. cartons, 3' x 3' white Sun-Gorden window, trim-a-slitter w/motor, (2) Keystone oak kitchen cabinets, (400'-500') assorted footage of alum. gutter, (6 rolls) assorted alum. pull through soffet, (7 sq.) vinyl siding, 36" Stow gasoline cement finisher, 500 lb. Dayton scale, 7' Reading truck cap w/side tool boxes & ladder racks, various sizes of fire dampers, misc. hardware, Jumping Jack ground tamper, Jay plate tamper, 6' step ladders, pump jacks, 16' security gate, ½ hp commercial elec. hoist for overhead type doors, 11973 Int. 3 ton dump truck (4-sp. 36,000 miles), Chevy boom truck w/32' Baker boom, snow shovels, paint trays, ash dumps, clean-out doors, metal tool boxes.

Auctioneer's Note: Selling at approx. 12:00 Noon lg. equip. and trucks. For information call (717) 933-4666. Sale will be held in building. In case of impassable roads sale will be held Jan. 17th.

TERMS: Cash or Pa. check, day of sale.

Auctioneer:
Dennis F. Wagner
AU-001427-L
Phone: (215) 562-7445
Brian R. Folk, App. Auct.
AA-001494-L

Sale For:
JAY L. ZEIGLER

Refreshments Available

LARGE TWO DAY SALE

OF FARM EQUIPMENT

at our place of business located six miles south of Chambersburg, Pa. one mile east of Marion, just east off Rte. 81 at Marion Exit along Rte. 914 on

THURSDAY, JANUARY 8, 1987
FRIDAY, JANUARY 9, 1987

Sales at 8:30 A.M.

SELLING THURSDAY, JANUARY 8

Usual run of tractors inc. John Deere, Int., Massey Ferguson, Fords, A.C., Oliver and others, some with loaders; Some Ind. Equipt. and Trucks expected, Imp. Trailers, Lawn and Garden Tractors, Tires, Gates, Chain Saws, Posts, usual run of Hardware and Misc. Items.

SELLING FRIDAY, JANUARY 9

Balers, Haybines, Rakes, Mowers, Pickers, Harvesters, Blowers, Forage and other Wagons, Elevators, Loaders, Spreaders, Sprayers, Grinder-Mixers, Planters, Drills, Plows, Disc Harrows, Rotary Mowers, Blades, Post Diggers, and usual run of Equipt and Misc. items.

FARMERS AND DEALERS - Bring in your equipt. for this sale. Do not bring junk items or worn out tires. We must limit small items. **Next Sale February 19-20, 1987. No equipt. with liens accepted unless we are notified in advance.** We are not responsible for condition of equipt. sold or for prices obtained.

New Buyer numbers over 300 are required for 1987.
If planning a sale contact us for dates and complete service.
Open daily 8 A.M. to 5 P.M. - Sat. to 3 P.M. - Closed Sundays.
Terms: Cash or Good Check - Food at Sale.

Ralph W. Horst, Manager
License No. AU-000-437L
Marion, Pa. 17235
Phone: 717-375-2824
Rentzel, Wolgemuth, Bohrer, Upperman, Harry, Gossert, Auctioneers

ABSOLUTE AUCTION

Equipment, Parts & Accessories, Tools, Showcases, and Jeweler Supplies
BRICKERVILLE FIRE HALL
WED., JANUARY 7, 1987
At 2:00 P.M.
Equipment at 4:00 P.M.

Items for the Jeweler, Dealer, Collector, an Individual

Sale to be held at Brickerville Fire Hall, located just off Route 322, approximately eight miles west of Ephrata, Lancaster County, PA.

Jewelers Tools & Equipment

Engraving Machines, Brass Plates; 10 Jewelry Showcases with Glass Tops, Drawers; Display Cases; Jewelers Workbenches; Jewelers Lathes; Oak Jessen and Rosberg; Crystal Box; Crystal Cabinets (Full); Crystal Installer; Vibrograf (Quartz Generation); Jeweler Scales; Microloupe and Jeweler Vises; Small Jewelers Tools; Ultrasonic Cleaner, Polishing Machine; Jewelers Micrometer; Cash Register; Filing Cabinets; Ribbon Maker; Wrapping Paper Cutter; Large Bulova Clock and Advertising Sign.

Watch and Jewelry Parts

Watch Band, Crystal, Springs, Movements, Jewels, Etc.; Used Watch Parts and Cases; Clock Parts.

Gift Items; Jewelry Boxes; Pewter Items; Costume Jewelry; Wall and Alarm Clocks.

TERMS - Cash, certified check, or bank letter of credit for those out-of-county bidders.

TERMS BY:
THE EPHRATA NATIONAL BANK

T. GLENN HORST, AUCT.
AU000438L - (717) 859-1331
TIMOTHY G. HORST, AUCT.
AU001767L - (717) 738-1245
DENNIS J. WARD, ATTY.

KREIDER

AUCTION

SHARP LATE MODEL JD EQUIPMENT

SOUTH WHITLEY INDIANA

MONDAY, JANUARY 12 at 10:00 AM

LOCATED: 3 miles south of South Whitley, IN, on State Road 5 to CR 800S, then east ¾ mile to the auction.

VERY FEW SMALL ITEMS! DON'T BE LATE!
LOADER TRACTOR AVAILABLE SALE DAY

AUCTIONEER'S NOTE: This is one of the sharpest lines of equipment we have ever sold. All equipment has been housed and is in excellent condition. DON'T MISS this opportunity to buy LIKE NEW John Deere equipment!

(2) JD 4440 - JD 2940 TRACTORS - ROUNDER SKID LOADER - ATTACHMENTS

1980 JD 4440 diesel tractor w/cab, heat, air 3 pt , PTO dual remote, (12) front weights rear weights 18 4 x 38 tires, quad range transmission 1593 hours 1979 JD 4440 diesel tractor w/cab heat air 3 pt PTO dual remote (10) front weights rear weights 18 4 x 38 tires & hub duals quad range transmission quick attach hitch, 2641 hours 1980 JD 2940 diesel tractor 3 pt PTO, dual remote, 18 4 x 34 tires, 1886 hours ' Rounder L 1000 skid loader w/4 cylinder Wisconsin engine 773 hours 60" material bucket & fork bucket heat houser for JD 2940 18 4 x 34 T rail duals ' 18 4 x 38 T rail duals (2) Category 2 quick attach hitches

JD 6620 COMBINE - JD 218 GRAIN TABLE - JD 643 CORN HEAD - GMC 5500 TRUCK

1980 JD 6620 diesel combine, turbo hydrostatic, cab heat air 1594 hours 1980 JD 218 flex grain table w/quick cut ' 1983 JD 643 corn head low profile oil bath JD 1065 gear for head carrier 1972 GMC 5500 truck power steering 350 engine, 4 speed transmission 8 25 x 20 tires rear tow hitch 13 Giant bed w/scissor hoist 33 734 actual miles

JD 7000 PLANTER - JD 8300 GRAIN DRILL JD 415 ROTARY HOE - (2) WHITE 373 CULTIVATORS (2) JD PLOWS - KEWANEE DISC JD & BRADY FIELD CULTIVATORS - BRILLION CULTIMULCHER - KOEHN TRUCK SCRATCHER

6 x 30 JD 7000 planter quick fill liquid fertilizer insecticide boxes corn and bean cups population monitor speed and acreage counter (6) JD furrow openers planter harrow for 6 x 30" planter JD 8300 grain drill 23 hole double disc 15 JD 400 rotary hoe (used on 150 acres) (2) White 373 6x30" cultivators spring shank w/rolling shields 5x18" JD 2600 semi mtd plow spring reset spring loaded coulters 5x18 JD 1450 semi mtd plow spring loaded coulters 21 Kewanee No 1020 flat fold disc 21' JD 1000 hyd fold pull type field cultivator w/hitchhiker harrow 21 Brillion cultimulcher hyd fold w/hyd controlled teeth Koehn 3 pt track scratcher controlled teeth Koehn 3 pt track scratcher

JD 670 HAY RAKE - JD 327 HAY BALER - JD 510 ROUND BALER - NH 451 MOWER - JD 1210 GRAIN CART - BADGER & NEW IDEA SPREADERS - VAN DALE CHOPPER PUMP - ARTS-WAY GRINDER - 62' x 8" CARDINAL AUGER - JD DOZER BLADE - 1000 GAL. TRUCK SPRAYER - SNYDER SADDLE TANKS - (2) JM GRAVITY WAGONS - BRADY STALK CHOPPER - POST HOLE AUGER

JD 670 dolly wheel hay rake JD 327 PTO hay baler (baled 200 acres) JD 510 PTO round baler NH 451 3 pt sickle bar mower w/9' bar JD 1210 grain cart 14 00 x 20 tires hyd fold auger ' Badger BN 315 1500 gal liquid spreader walking tandem axle 15 suction hose New Idea 214 PTO manure spreader double beater hyd slop gate, T bar chain Van Dale 8' chopper pump hyd drive Arts Way 425 C 2½ ton grinder mixer w/(2) 20" screens 1986 62' x 8" Cardinal PTO transport auger hyd raise & lower w/hyd swing out unloading auger JD 534 9 dozer blade front mount hyd raise manual angle 1000 gal fiberglass tank sprayer w/50' booms, 5 HP motor & pump, sparge tube Snyder 200 gallon poly saddle tanks w/PTO pump hoses & brackets (2) JM 250 gravity wagons (1) w/JD 1065A gear (1) w/10 ton JM gear Brady 12 PTO stalk chopper 7' Sidewinder 3 pt rotary mower 3 pt post hole auger (12" auger) ' 3 pt bale mover 3 pt 8' grader blade New Idea corn drag 3 pt 55 gal sprayer w/hand boom only ' flat rack wagon w/gear running gear

15,000 & 10,000 GAL. FERTILIZER TANKS - OIL FURNACE - MIDLAND RADIOS - WINPOWER GENERATOR - 16' HALE LIVESTOCK TRAILER - JD SNOWMOBILE - KAWASAKI MOTORCYCLE - CYCLONE SEEDER - SHOP TOOLS

15,000 gal fertilizer tank, 12' diameter 10,000 gal fertilizer tank 10' diameter assorted 2' hoses & valves 3 HP motor & transfer pump 110 000 BTU forced air oil furnace (2) 25 watt, (1) 30 watt Midland FM radio units, channel guard 12 volt transformer base antenna co ax cable VHF Ritron hand held radio Winpower 45/25 PT2 portable PTO generator 16' x 6' Hale tandem axle livestock trailer 1978 JD Spitfire snowmobile ' Kawasaki KM 100 motorcycle, 1545 miles Cyclone PTO seeder 3 pt log splitter ' 24" exhaust fan ' (6) 18" Weiss spring loaded rolling cutters (2) 100 gallon pickup fuel tanks * 2500 lb 12 volt electric winch ' acetylene torch & tanks ' ½ HP air compressor (2) ¾ HP electric motors ' Johnson sickle servicer " 6½" Skil saw ' fence stretcher

CATTLE EQUIPMENT - HOG EQUIPMENT - HAY - STRAW

Smidley Steer Stuffer 10' self feeder ' round bale feeder " (20) 16' cattle panels " (2) electric fence chargers " Kane Model 600 feed dump scale assorted wood cattle gates " (2) 60 bushel round hog feeders (3) double nipple automatic hog fountains w/heaters " stack tank w/hog waterer hog catching crate " assorted pipe hog gates " heat lights (25) round bales alfalfa mixed hay (all stored in side) (60) round bales wheat straw (approx 35 bales inside)

TERMS: Cash or Check w/proper I.D.
Not responsible for accidents.
Lunch Served

OWNERS: STEVE & KAREN KREIDER

(219) 723-5215

AUCTION CONDUCTED BY: Rex D. & Denzil Schrader
SCHRADER REAL ESTATE & AUCTION COMPANY, INC.
209 W. Van. Buren, Columbia City, IN 46725
Phone: (219) 244-7606 or Ft. Wayne 625-3373

Public Auction Register

PUBLIC AUCTION
OF
FARM EQUIPMENT
JANUARY 30, 1987
At 11:00 A.M.

Directions: From Rt. 222 go north on Rt. 897 for 5 miles, turn right onto Texter Mountain Rd., go 3 miles to left at sign for Newmanstown. 1 mile to sale. From Rt. 419, turn south at red light in Newmanstown, follow main road for 3 miles to sale, Lebanon County, Pa.

J.D. 30-20 diesel wide front end w/power shift; J.D. 620 gas; 1966 Int. Scout w/snow blade; Dunhand loader; N.H. #328 manure spreader; Brady 7 tooth chisel plow, 3 pt. hookup; Int. 2 bottom plow; Int. 12'3 pt. field cultivator; Int. 1 P.R. corn picker; Gravity bin; J.D. 3800 harvestor w/2 row corn head & hay head; J.D. #336 baler w/thrower; Zimmerman 36' elevator; N.H. #256 Hay Rake; J.D. 1209 Haybine; 2 wooden rack hay wagons; Winco 15KW Generator on trailer; 425 gal. polyethylene pick-up tank; Surge Alamo 75 Vacuum pump; Esco 525 gal. bulk tank w/1hp compressor; Twin tub & single tub; Hot water heater; Zimmomatic hydr. barn cleaner for parts.

NOTE: There will be no small items, farm equipment will be sold promptly at 11:00 A.M.

Terms by:

CLARENCE & ANNA RUTH MARTIN
(215) 589-2716
HORNING FARM AGENCY, INC.
AU-000433-L
Alvin Horning, Auctioneer
Merle Eberly, Auctioneer
Lunch Available

PUBLIC AUCTION
AT RUDNICK'S SALES, ROUTE 213,
GALENA, MD.
SATURDAY, JAN. 10, 1987
AT 10:00 A.M.
Estate Of Amelia Field Clay Of
Chestertown, Maryland,
Plus Additions:

ANTIQUES: Federal Style Chest With Bookcase Top, 2 Oval Stack Bookcases, 4 Poster Walnut Bed, Spool Bed, Children's Chairs, Fire Place Tools And Andirons, Tall Case Oak And Mahogany Clock, Rush Seat Ladder Back Tall Chair, 12x15 Oriental Rug, Prints, Pictures And Paintings, (Signed), (Koma, Krimkhreys '83, Albin, Eder, Felgentreff, Brutey, Keith), Brass And Metal Eagles, Marble Pedestals, Fine Oil And Electric Lamps, Hanging Fixtures, Girandoles, 40 Pcs. Cut Glass, Brasses, Sterling & Silver Plate, Gold Band China, Earthenware, Cloisonne, English B & W China, Staffordshire Figurines, Imari Chinese Charger Telescope, Chinese Silk Pieces, German Clock, Iron Door Stops, Bronze Figurines, German Canister Set, Brass Student Lamp, Wicker Baskets, Mixing Bowls, Thorens Music Box With 8 Discs, Antique Tools, Patch Quilts, Brass Telephone— Plus A Large Selection Of Oriental Rugs, Room Size, Runners, Throws,— Jewelry, Silver, And Fine Pieces Of Furniture From Several Local Estates:

OUR NEXT SALE WILL BE
SATURDAY, FEBRUARY 14, 1987
HARRY RUDNICK & SONS, INC.
Sales Manager, Auctioneers,
Real Estate Broker
Galena, Md. 21635 Phone: 301-648-5601

WED. FEB. 11 - 10AM Clair Holstein Dispersal, Barn Eq. Lanc. Co., PA, 1 mi. N. of Gap along 897. Clair & Fannie Bowman. Steve Petersheim & Steve Jr., Aucts.

FRI. FEB. 13 - Barry Johnon Farm Machinery, Airville Area, York Co. J. Everett Kreider, Auct.

FRI. FEB. 13 - 9AM Farm Eq. New Holland Sales Stables, Inc., New Holland, PA. Abe Diffenbach, Manager

SAT. FEB. 14 - Dairy Cows and Farm Eq. Located along Cocalico Rd. between Scheoneck and Cocalico, RD 2, Denver. Edwin W. and Mary Ann Zeiset, Owners. Paul Martin and John D Stauffer, Aucts.

SAT. FEB. 14 - Granville Overly Estate Household Sale, Wakefield area J. Everett Kreider, Auct.

SAT. FEB. 14 - 9AM Horses and Horse Drawn Machinery. Located in Mifflin Co. between Belleville and Milroy, PA, ½ mi. E. of Barrville along Back Mt. Rd. John B. Hostetler, Jr. and Ner Hostetler. Mark Glick, Auct.

MON. FEB. 16 - 10:30AM Complete Liquidation of the largest grower-packer of potatoes in New Jersey. J&B Potato and Grain Farms, Inc., Hightstown, Monmouth Co., New Jersey, Owners. Pirrung Aucts., Inc.

TUES. FEB. 17 - 9:30AM Farm Mach., Mules, HH. 1 mi. E. of Intercourse, PA. Samuel L. & Rebecca Esh, Owners. Steve Petersheim & Steve Jr., Aucts.

WED. FEB. 18 - 9:30AM Farm Mach., Horses, HH. ½ mi. S. Vintage. Jacob S. & Rebecca H. Beiler, Owners. Steve Petersheim and Steve Jr., Aucts.

THURS. FEB. 19 - Farm Eq. & Tools. Allen Hoover, along Rt. 82, approx. 5 mis. E. of Honey Brook. Nevin Martin & Lewis Groff, Aucts.

THURS. FEB. 19 - 9AM Farm Equip. Located between Soudersburg & Paradise at 2969 Lincoln Hwy., Rt. 30, 8 miles East of Lancaster. Terms By: T.J. Wheary & Sons. Aucts: Robert E. & Jeffrey R. Martin & Blaine Rentzel.

THURS FEB. 19 - 9AM PA Draft Horse & Mule Association Sale. Pennsylvania State Farm Show Building, Corner of Cameron & McClay Sts., Harrisburg, PA.

THURS. FEB. 19 - 9:30AM Longview Farms (Punk Bros.), Rt. 526, Imlaystown, NJ. Farm Mach., used on 1000 acre potatoe & grain farms. Sale by: Col. Fred R. Daniel Aucts., Inc.

THURS. FEB. 19 - 9:30AM Horses, Mules, Dairy Eq. & Farm Machinery. Centre co., ¼ mi. W. of Madisonburg, PA, turn S. off Rt. 192, 1st lane. Henry F. & Anna Beiler. Mark Glick, Auct.

THURS. & FRI. FEB. 19 & 20 - Large Two Day Sale of Farm Eq., etc., at our place of business, 1 mi. E. of Marion, PA, off Rt. 81. Ralph W. Horst, Manager.

FRI. FEB. 20 - Coin Sale. Winterstown Fire Hall, York Co. J. Everett Kreider, Auct.

FRI FEB. 20 - 9AM Horses, Cattle, Machinery, some Furniture, items for school. 4 mis. W. of McClure, PA, turn N. off Rt. 522 at the Mifflin/Snyder Co. Line. Noah A. & Elizabeth Yoder. Mark Glick, Auct.

FRI. FEB. 20 - 10AM Horse Sale. New Holland Sales Stables, Inc., New Holland, PA. Abe Diffenbach, Manager.

SAT. FEB. 21 - 9AM Farm Toy Show and Auction Located at the Best Western Inn, in the Mariposa Ballroom. 1245 Harrisburg Pike, Carlisle, PA. Sponsored by the Cumberland Valley Tractor Pullers. Mark K. Keller, Auct.

SAT. FEB. 21 - Tack 9:30AM and Horses 11AM at the Belleville Livestock Mkt., Belleville, PA. Draft Horses, Mules and Driving Horses. Mark Glick, Auct.

SAT. FEB. 21 - 11:30AM Tractors, Farm Eq. Located between Lancaster & Strasburg near Lampeter. Earl Simmons, Owner. Cloyd Wenger, Auct.

PUBLIC AUCTION
VALUABLE 74 ACRE DAIRY FARM
FARM MACHINERY-HOUSEHOLD ITEMS
SATURDAY, JAN. 17, 1987
SALE TIME 10 A.M.
REAL ESTATE 1 P.M.
Located Rt. 272 South of Lancaster, Pa. 5 Miles South of the Buck turn West on Goshen Mill Rd. 2 Miles to Farm. Drumore Twp. Lanc. Co.

Real Estate consists of 74 Acres M/L of Chester Silt Loam soil. Approx. 65 A. tillable, 8 A. pasture, balance occupied by bldgs. Zoned Agriculture. Road frontage on three sides.

THE HOUSE: A 2½ Story frame dwelling w/alum siding, slate roof, 2 porches. **1st. Floor:** Kitchen w/modern build in pine cabinets, stove & dishwasher, dining room, living room, storage room, powder room, laundry and open stairway. **2nd Floor:** 6 bedrooms, full bath. Storm windows & doors, attic, basement, oil hot air heat. 4'x24' round above the ground pool. Nice lawn & fruit trees.

THE BARN: Frame bank barn approx. 45'x72', slate roof, loafing area underneath. Liquid manure system, Metal 12 ton feed bin, 16'x70' concrete stave silo w/unloader. Bunk feeder w/60 ft. belt feeder. 6 Stall milking parlor, 1000 gal. Dari Kool milk tank. 3 Trench's. Metal 66 free stall barn 45'x75. Metal 54'x80' heifer barn & implement shed combined. Corn barn, wire corn crib.

AUCT'S NOTE: Farm is ready for use. Immediate possession. 10% down balance upon settlement. Insp. each Sat. prior to sale date.

FARM MACHINERY: 706 Int. gas tractor, narrow front, w/cab; JD 60 tractor, live hyd & pto; 1737 Case skid loader, gas w/2 buckets; 1537 Case skid loader for parts; 770 NH forage harvestor 1 row w/pick up; 2 Gehl forage wagons; NH #30 blower, heavy shaft 1000 rpm; #258 NH rake; JD disc grain drill; NH 351 grain mixer; JD 12 ft. transport disc; 12 ft. roller; 214 NI manure spreader w/top beater & end gate; AC semi mounted 4 bottom plow, hyd reset; JD 16A crop chopper; 24 ft. elevator; 2 flat bed wagons; JD scraper blade; Lincoln elec. welder; cutting torch; 300 gal. stainless steel tank on wheels; 110 gal. fiber glass tank 3 pt. sprayer; corn silage; approx. 300 to 400 bales straw; pile of iron; small items. **FEW HH GOODS:** Antique rope bed; antique youth bed; library table and other items. **SALE ORDER: Small farm items, h-hold items, farm machinery. No out of state checks. Food available.**

TERMS BY
E. WAYNE & DOROTHY GORE
Attorney William Campbell
Auctioneers:
Lloyd Kreider, AU000513L,
Randal Kline, Roy Good,
Gary Shirk 717-786-3394

KREIDER & KLINE AUCTIONEERS

LARGE POTATO & DAIRY FARM MACHINERY AUCTION
7 TRACTORS - 8 TRUCKS - POTATO & DAIRY EQUIP. - TOP HAY EQUIP.
THURSDAY, JAN. 15, 1987
9:30 A.M.

For- Chas Flock & Sons - located on Flock Rd. just off Rt. 34, Colts Neck, N.J. 1 mi. N. of Rt. 537 off Rt. 34. From Garden State Parkway take Rt. 9-S to Rt. 34-S. From South use N.J. Turnpike to Exit 7A to Interstate I-95 East to Exit 16 to Rt. 537 East to Rt. 34. Arrows from Rt. 34. Farm Sold and Everything must be Sold!

9:30- ½ hr. small items, new tires, pump, 10 hp motor, 12 KW-belt generator, motors.

10:00 A.M. - DAIRY EQUIP.- DeLaval 1-½" glass 48 cow pipeline - auto washer - 4 units - #76 milk pump, Girton 600 gal. bulk tank, Patz 48 cow barn cleaner w/elevator - runs cc - top shape, Patz 14 to 20 ft. and Patz 16 to 20 ft. silo unloaders - 48 Jamesway stanchions - 30 water cups - 3 calf pens - feed lot stanchions row, elect concrete floor scrubber, feed carts.

11:00 A.M. - POTATO PACKING & WAREHOUSE EQUIP. - THE FOLLOWING ARE ALL HAINS EQUIP. - Belt conveyors - 60 ft. x 16", 40 ft. x 12", 20 ft. x 12", 9 ft. L belt, 14 ft x 36" belted chain w/flights, plus various other Hains and other belt conveyors. Hains - 2 belt trench loaders, 2-48" & 27" washers, 48" gas fired potato dryer, 48" sizer, 48" grader, chef sizer w/2 way belt, 12 ft x 48" roll top table w/split center, 15½ ft. Flume, 30" dirt and lump eleminator, 16 ft. bulk body w/grain pan used as bin.

OTHER MAKES - Troyer potato loader w/26 ft. hyd boom - swings 180 deg., 26" grader-port., Milestone potato cutter, Deltz Wetzel spool size cutter, Filper Weigh 'o' matic 50 to 100 lb. auto bagger, North West 2-Sta 3-25 lb. bagger, 2-Hamer elect wire ties Mod. O and X, Yale 3000 lb. propane fork lift, hyd pallet jack, platform scales, 50 lb bulk boxes, 4 way pallets, 7-½ hp 3ph flume pump, 3 ph 10 ton cooler unit. **potato FIELD EQUIP. - LOCKWOOD** - 4 row potato Planter w/insect boxes - A1, **FMC** - SS tank w/Royal pump PTO & hyd sprayer w/84 ft. booms, **LOCKWOOD-** model XL (the big one) potato Harvester - all hyd w/vibrator - belted chain - Mint condition! IHC - 6R Weeder, PLUS-MORE.

1:00 P.M.- TRUCKS & TRAILERS W/POTATO BULK BODIES - DUMP TRUCKS - PKUP- 79-IHC #1800- PS- 2 spd- 5 spd- **23000 MI W/20 FT. MORGAN** Van body rollup rear & side door - All like New! 82 Ford F250 pkup- V8- auto- 40000 mi sharp. 79- GMC #5000- V8- w 12 ft. Morgan Van body roll up door, 76- IHC #1800- V8- 5 spd- w/14 ft. dump. 64 Chev #60- V8- 2 spd w/14 ft grain dump. 74- GMC #6000- V8- 2 spd- transfer case w/14 ft Ziggy body 66- GMC #4000- V6- 2 spd w/Ziggy 14 ft. body. 66- GMC- V6- 2 spd w/16 ft Hains body w/grain pan. All Trucks have Power Steering! 3- Ziggy bulk potato trailers w/elect chain- 2- 15 ft - 1- 14 ft - 2 tandems- 1 single axle.

1:30 P.M. TRACTORS - INTERNATIONALS - #886- DL- full cab- loaded- 682 hr- Like New! #186- DL- hydro 4 post cab- 1700 hr- Super Sharp! #686- DL- 2200 hr- Sharp! #1066- DL Turbo w/new 20.8-38 radials- 2300 hr- Real Sharp! #560- DL- 2PT w/hyd. front ldr. #450 gas- 2 PT #400 gas- 2 PT All of the above Tractors have WF and PS and all are real sharp! **ATT.-** Fox Super 1000 forage chopper w/2R corn head- elect sharp- Like New! **TILLAGE-** International- #710- 5 btm - 18" semi mtd. plow w/buster bar A-1. #415- 21 ft. hyd. wing disc A-1 #352- 24 ft. field harrow w/fold hyd wings, 4R- 3 PT. cult. w/insect boxes, rear mtd side dresser, Gandy 12 ft fert spdr. **PLANTERS** - AC #600- 4R- No Till corn planter w/insect Brillion 8 ft. seeder packer, JD- 18 hole drill. **SUPER HAY EQUIP.-** NH #315 hay baler w/thrower like new. NH #489 haybine 9 ft. like new. 2- H&S 18 ft.x9 ft. metal kicker wagons Like New. NI roll-a-bar rake, IHC- 2 PT- 7 ft. mower, 2-16 to 20 ft. tub elevators. **ROTARY MOWERS-** Woods #121-10 ft. A-1, Woods 5 ft. **IRRIGATION-** 4- Shure Roll Wheel Lines- 5"- 1000 ft. each w/mowers, pipe trailer **DUALS-** 2 sets- 20x38 & 15x38.

NOTE- The above equipment comes from the best Hotel- all housed under cover and kept in the best condition! The Flock Family is known for being quality potato Growers and for keeping their equipment in the best of shape! Truly an opportunity to be able to buy from a large super clean offering! Farm Sold- Everything Sells to the Highest Bidder! Plan to attend! Lunch! Blizzard date 1-17-87.

TERMS- OUT OF STATE BUYERS- Cash or Guaranteed Funds- checks accompanied with a current Bank letter of Credit Stating the amount you can spend up to at the Chas. Flock & Sons Sale, Full Settlement Sale Day! Farm #201-462-5294 or 6660.

SALE CONDUCTED BY:
COL. FRED R. DANIEL AUCTIONEERS INC.
BOX 151 RD #3 NESHANIC STA., N.J. 08853 201-369-4784 EVE.
(THE VEGETABLE FARM EQUIPMENT AUCTIONEERS)

Public Auction Register

Closing Date Monday 5 00 P M
of each week s publication

SAT. FEB. 21 - 1PM Village of Blue Ball along Rt. 23. Real Estate. Lowell W. & Maryann Horst, Owners Nevin Martin, Auct.

MON. FEB. 23 - 10AM Complete Liquidation of Potato Farm Mach for Wolf Farms, Inc., Stewartstown, York Co., PA. Owned by Wolf Farms, George Wolf and Sons Pirrung Aucts., Inc.

MON. FEB. 23 - 10AM Farm Mach., Dairy Eq. ½ mi S of Belleville, PA David J. & Arlene Spicker, Owners. Mark Glick, Auct

TUES. FEB. 24 - 9AM Horses, Dairy Cattle, Swine, Farm Mach. Centre Co., 1 mi. E of Aaronsburg, PA. Ben Y. & Barbara Hostetler, Owners. Mark Glick, Auct

TUES. FEB. 24 - 9:30AM Farm Machinery and Tractors. Located along Meadow Valley Rd., Ephrata, PA Edwin Horning and Sons, Owners

TUES. FEB. 24 - 11AM Farm Mach., 3 Tractors, Most 11 bought new. Located 3 mis. S. of New Holland. For: Jacob S. & Ada Deinner. Steve Petersheim & Steve Jr., Aucts.

WED. FEB. 25 - Donald Myers Farm Machinery Sale and Carpenter Tools. Buck area. J. Everett Kreider, Auct

WED. FEB. 25 - 9AM Holstein Herd, Milking Eq., Farm Mach. Aquilla & Anna Mary Stoltzfus Steve Petersheim & Steve Jr., Aucts.

THURS. FEB. 26 - Farm Eq. Located Cumberland Co., 132 Park Drive, Boiling Springs, PA. Ferman Landis, Owner. Foreman's Auctioneering.

THURS. FEB. 26 - 11AM Robert England, Gordon Rd., Robbinsville, NJ. Big Grain Farm Mach. Sale by: Col. Fred R. Daniel Aucts., Inc.

FRI FEB. 27 - Rt. 49 between Gold and Coudersport, PA, Potter Co. Mr. & Mrs. Rodney Hershey Dairy Heifers and Farm Mach. Jerry Pirrung, Sales Mgr.

THURS. & FRI. FEB. 26 & 27 - 9AM Ea. Day. Antique Tractors & Engines, Parts, New, Used & Abused Farm Eq. 10 mis. E. of Lanc., 2½ mis. W. of New Holland, turn off Rt. 23 on S. Groffdale Rd., turn left on Musser School Rd Lanc. Co., PA. Terms. Elias S. Beiler. Aucts.: Robert E Martin & Son, Blaine Rentzel & Ed Goodrich, Jr.

SAT. FEB. 28 - Farm Machinery, Horses. David B. Zook. Steve Petersheim & Steve Jr., Aucts.

SAT. FEB. 28 - Farm Eq. & HH. Aaron Ebersol, along Churchtown Rd., ½ mi. S. of Cambridge. Nevin Martin & Lewis Groff, Aucts.

SAT FEB. 28 - Fifth Annual Lancaster Farm Toy Auction, Show and Sale at Lancaster Treadway Inn, Route 30 and Oregon Pike (Rt. 272), Lancaster, PA. Show and Sale 9AM to 3PM. Auction starts at 5PM. Auctioneer-Wally Hooker.

SAT. FEB. 28 - Farm Eq. Located 3 mis. N. of Annville, PA H. John and Mary S. Martin, Owners. Paul Martin & John D. Stauffer, Aucts.

SAT. FEB. 28 - Farm Machinery. Landisburg, Perry Co., PA. Gary Haas, Owner. Kling's Auction Service, Sale Mgrs.

SAT. FEB. 28 - 8:30AM Tack; 10:30AM Horses. Consignment Horse Sale. Keister's Middleburg Auct. Sales, Inc., Rt. 522, 3 mis. E. of Middleburg, 5 mis. W. of Selinsgrove, PA. Don & Walt Keister, Owners.

ANNOUNCING TWO IMPORTANT EAST COAST POTATO

AUCTIONS

MONDAY, FEB. 16, 1986

10:30 A.M.
(Blizzard Date: Wed. Feb. 18)
J & B Potato And Grain Farms, Inc.
New Jersey's Largest And Most Up-To-Date Grower-Packer
Exit 8 of the N.J. Turnpike
Hightstown, (Monmouth Co.)
New Jersey

Farms sold to developers, completely discontinuing all farming operations: A show place farm operation!

6 Excellent IH tractors (1586, 1086, 186 Hydro., 100 Hydro., 1456 and 806); 18 Farm trucks including 5 10-wheelers; 1985 Haines high volume super seed cutter; 1985 Dahlman 400 PC cup planter, 4-row pull type all deluxe setup; Lockwood 4500 conventional 2-row harvester with all belted chain, been over 599 acres; 4 Haines 22 ft. bulk bodies; and others; 2 Baker 20 head auto. baggers; Complete Haines grading line installed in 1981 with 48 and 60 in. components; Big full line of farming and packing house equipment, tillage and harvest aids and 5 miles of irrigation lines! Well maintained equipment!

J & B POTATO AND GRAIN FARMS, INC.
James VanHise 609-443-5369
Bud Michalchuk 609-448-6595
Office 609-443-5742

MONDAY, FEB. 23, 1986

10:00 A.M.
(Blizzard Date: WEDNESDAY, FEB. 25)
Wolf Farms, Inc.
COMPLETE POTATO FARMING AND PACKING LINE

AUCTION

Exit #1 of I-83
Stewartstown, (York Co.) Penna.
(40 miles north of Baltimore, Maryland)

Tractors include 1981 Steiger Cougar ST-280, 350 Cummings diesel, 899 hours; 1972 Steiger Bearcat; IH 3488 Hydro. mechanical front wheel drive, 2 yrs. old, 1271 hrs.; 4020, 4010, 530; 1985 Haines, standard potato seed cutter; Seemline conventional 2-row harvester; 4 brand new Lockwood and McConnell 18 ft. bulk bodies on tandem dual wheel trailers; 2 yr. old Haines 525 CWT, 35 ft. long bulk potato holding bin with overhead fill system and variable speed unload; Baker 10 head bagger; Complete packing house line; full line of potato handling equipment, tillage and harvest aids, trucks and tractors, Ever Rain 350 reel type irrigation system with 4 in. hard plastic and Nelson gun, 2 yrs. old!; 6 and 5 in. Tico alum. pipe; A good line here that has been well cared for!

WOLF FARMS INC.

George Wolf And Sons
717-993-6226 Days
717-993-6152 Nights
CONTACT AUCTION CO. FOR DETAILED FLYERS OR SEE FULL LIST IN THIS PAPER JAN. 31 ISSUE
Auction Conducted by
PIRRUNG AUCTIONEERS, INC.
P.O. Box 365
Wayland, New York 14572
James P. Pirrung 716-728-2520 Lic. #001672L
Gerald A. Pirrung 814-848-7421 Lic. #001646L

Potato Farm Auction Specialists Since 1948

PUBLIC SALE

Of Full Line Farm Machinery
Ear Corn - Milking Equipment
Household Goods - Antiques
5 Tractors

SATURDAY, JANUARY 10, 1987

9:00 A.M.

Located in Lancaster County, PA, 6 miles East of Intercourse, 1 mile West of White Horse along Route 340, 15 miles East of Lancaster City.

Tractors, Loader, Combine

International 656 diesel, tricycle front, fast hitch, front weights; year-around cab, sells separate; International 574 diesel, wide front, approximately 2600 hours, 3 pt. dual hydraulic hook-up rear, weights; Dunham heavy duty loader on 574 sells separate, fork & bucket, complete hydraulic control; 3 pt. weight 2400 lbs.; Farmall 400, wide front, hydraulic pulley, P.T.O., torque; Farmall 200, 2 pt. hitch, hydraulic draw bar, P.T.O.; Farmall Super. hydraulic pulley, live P.T.O.; all in good running condition; tricycle post fits 400; 2 full sets of cultivators; tractor chains; tobacco hoers; International front end loader, fits 400; 510 Massey Ferguson combine, 13' grain head, bought new by the Kurtz's, in good condition; front guard for H tractor.

Tillage & Planting Equipment

International 412 semi-mounted, 2 pt. hitch, 4 bottom 16" plow; McDeering 4 section spring tooth harrow; John Deere heavy duty 12' transport disc harrow, new discs, 1 year, dual wheels; John Deere 6' killefer off set disc harrow; International 28 discs pull type disc harrow; Brillion 11' single roller cultipacker mulcher; International 56 4-row corn planter; Stauffer 2-row transplanter; Iron 1-row potato planter; 14' Little Genius 2 bottom trailer plow; Oliver Superior 13" disc grain only drill; 7' rotary hoe.

Harvesting Equipment

New Holland 469 9' haybine; New Holland 56 rake, rubber attached teeth; New Holland 280 baler with thrower; 3-16' hay wagons; 24' Smoker elevator; 36' New Holland elevator; New Idea 325 2-row corn picker, narrow with 327 husking bed; 3 grain bin wagons; International 234 2-row mounted corn picker; John Deere 65 forage blower; Gehl BU85 forage wagon, extra cross conveyor belt new; International fast hitch, 7' bar mower; International semi-mounted 7' bar mower; Case stalk shredder; 2 Minnick tobacco presses; approximately 12,000 tobacco lath; 2 sets of 20' tobacco ladders, steel posts & braces, in good condition; 7' weeder; 16' single chain grain elevator, extra chain; 12'4" grain auger with electric motor; 4 hydraulic cylinders; New Holland 519 manure spreader; Dunham fast hitch post hole digger; potato grader.

Barn & Shop Tools, Etc.

2 feed carts; platform scales; approximately 60'9" silo pipe, goose neck; funnels; round hog feeder; 22 head yard cattle feeder; circular saws fits Farmall H; manure sled; hay ropes; tractor and implement tires & wheels; chicken coops; 16-9-24 new tractor tire; snow fence; 5-16' 2x10 planks; dirt scoop; odd & end pieces of lumber; 4' box yard fence; P.T.O. shafts; jacks; hitches; barn lime spreader; reduction gear grinder drive; hand tools; 2 gear boxes with 16' shafts; small seed broadcaster; box wire fence stretcher; large air compressor; grease pumps; baler twine; International super 100 electric fencer; feed scoops; barn dry; saw horses; rotary lawn mower; 5 calf hutches; cow clippers; animal health supplies; 55 gal. drums; fence posts; rabbit hutches; wheel barrow; 2 well pumps. (Approximately 80 ton ear corn & 3 ton straw.)

Milking Equipment, 20 Milk Cans

3 Surge milker units; dumping station; gas space heater; stainless steel twin tubs; 30 gal. electric water heater; stainless steel strainers & pails; Surge vacuum pump with motor; vacuum regulator.

Butchering Equipment & Antiques

2 sausage stuffers, 1 on old bench; meat grinder on bench; butcher bench; 2 iron kettles; copper kettle; iron stove to heat large iron kettles; iron laddle & fork; poker irons; hog scrapers; crocks, 1 blue no. 3, old with earthen handles; apple butter and lard stirers; wooden spoke wheel barrow; express wagon; wooden pulleys; **2 old tobacco side boxes;** egg baskets; egg scales.

Household Goods, Antiques

Small oval drop leaf table; oak extension table with boards & board rack; clothes rack dryer; wicker flower stands; **wicker nursing rocker, A1 condition,** unusual; 2 ladder back rockers; 3 old benches; 2 tables; oil space heater; aget pans; 3 piece bedroom suite, dresser & bureau dove tail drawers; oak library table; black & white T.V.; wicker chairs; old rockers; side board; shopping basket; 2 childs desks & chair; kerosene lamp base; blankets; bedding; etc; rugs; few dishes; table lamps; jars; buffer-waxer; vacuum sweeper; bicycles; tricycle; 2 door upright freezer; 4 plate pot belly stove.

Come and see what else we found in the attic & tobacco shed. Auctioneer's Note: You don't want to miss this one!

Owners:
HERSHEY & MARGUERITE KURTZ

Auctioneer:
Steve
Steve Jr. **Petersheim:**
717 786-4624
Lic. #AU-001349-L

Food by White Horse Fire Co. Ladies Auxiliary

PUBLIC SALE

SATURDAY, JAN. 17, 1987

9:30 A.M.

Located six miles south of Quarryville, four miles north of Wakefield. Just east of Route 222 along Fulton View Road. Little Briton Twp. Lanc. Co. Penna.

REAL ESTATE

70 ACRE FARM more or less
Approximately 56 acres tillable
Approximately 11 acres permanent pasture and woodland.
BANK BARN with slate and metal roof. Milk house, corn cribs.
Forty stanchions; box stalls; Horse stable;
16' x 55' concrete stave silo; carriage shed.
STONE and frame house with seven rooms, and bath. Large porch. Slate roof.

LIVESTOCK; FARM EQUIPMENT; CROPS

Sale at 9:30 A.M.
Real Estate at 10:30 A.M.
Inspection anytime except Sundays

Owners
JACOB M. & RACHEL E. STOLTZFUS

Diffenbach Aucts 225L
717-393-4464

Lunch Available

PUBLIC SALE

Antiques, Household Goods, Tools, Car

SAT., JAN. 10, 1987

Sale Time: 9:00 A.M.
(Tools Sold First)
Car: 1:45 P.M.
Real Estate: 2:00 P.M.
Located at 490 Howard Ave., Ephrata, Pa. (Corner of Pine St. & Howard Ave.)

BRICK RANCHER WITH ENCLOSED BREEZEWAY & ATTACHED 1-CAR GARAGE.

FINE 7-PIECE SOLID MAHOGANY BEDROOM SUITE: Box Springs & Mattresses, Oak Chest of Drawers, Oak Dresser; Love Seat (Like New); Lazy Boy Lounge Chair; Dropleaf table; Pedestal Table; Oak Rocker & Chair; Child's Settee & Matching Chair; Therapy Chair (Like New); Cane Seat Oak Wheelchair; Trunk; 25" ZENITH CONSOLE TV; 21" Quasar TV; Automatic Washer & Dryer; 30" Gas Stove; G.E. 15 cu. ft. Freezer; 17 cu. ft. Frigidaire Ref.- Freezer; Westinghouse Commercial Refrig. (2-Door Beer Tap); "Nelco" Sewing Machine; Scanner; Baskets; Pressed & Patterned Glass; Coke Clock; Pepsi Cola Cooler; Old Reading Beer Pictures; Kiddie Car; Butcher Knives; Copper Wash Boiler.

TOOLS - 10" Table Saw; Drill Press; Band Saw; 4" Jointer; Jigsaw (18" Throat); Motorized Hacksaw; Drills; Circular Saws; Acetylene Torch; Belt Sander; Sabre Saw; Bench Grinders; Bolt Cutters; Mitre Box; Bar & "C" Clamps; Shop Vacuum; Toolboxes; Come-Along, WRENCHES; Work Bench with Wooden Vise; Carpenter & Hand Tools; Buck Saw; Wooden Extension Ladders.

7 h.p. MASSEY FERGUSON RIDING TRACTOR; Fishing Equip.

CAR; 1978 CHEVROLET IMPALA 4-DOOR SEDAN - 54,000 Miles.

Terms By:
WILLIAM L. BACHL ESTATE
T. Glenn Horst, Auct.
AU000438-L
717-859-1331 or 717-738-1245
Timothy G. Horst, Auct.
AU001767-L
A. Anthony Kilkuskie, Atty.

Dairy and Livestock Sales

Public Auction Register

SAT. FEB. 28 - 8:30AM Ralph Brenneman's Annual Community Sale. Farm Machinery, Tractors and Antique Equipment. Located from I-83 to Exit 6E take Rt. 74 S., 1 mi. to Campbell's Music Store, turn left on Oak Road and proceed 1½ mi. to sale. Or Dallastown take Fruitlyn Drive till Raabs Fruit Farm turn left onto Oak Rd. and proceed ½ mi. to sale. Ralph Brenneman, Auct.

SAT. FEB. 28 - 9AM Strasburg Fire Co. #1 Thirteenth Annual Public Sale. Horses, Mules, Farm Mach., Hay, Straw, Tools, HH, Antiques. W. Main St. Strasburg, PA. Sale managed by Elvin Siegrist, Alvin Miller & local Aucts.

SAT. FEB. 28 - 10AM Good Line of Farm Mach. Centre Co., 3¼ mi. E. of Aaronsburg, PA, on Apple Butter Rd. Fred & Mona Boob, Owners. Mark Glick, Auct

MARCH

MON. MAR. 2 - Farm Mach. Landisburg, Perry Co., PA. Dean Pannebaker, Owner. Kling's Auction Serv., Sale Mgrs.

WED. MAR. 4 - Farm Mach. Carlisle, PA. Donald Ellerman Estate. Kling's Auct. Serv.

WED. MAR. 4 - 9:30AM Farm Mach., 15 Head Heifers, few HH. Located 1 mi. W. of Gap on Mine Rd., PA. Ben S. & Mary E. Lantz, Owners. Steve Petersheim & Steve Jr., Aucts.

THURS. MAR. 5 - Registered & Grade Holsteins and Farm Mach. About 2 mis. E. of Belleville, PA. Enos J. Yoder, Jr., Owner. Mark Glick, Auct.

FRI. MAR. 6 - 9AM Machinery. At the Belleville Livestock Mkt., Belleville, PA.

FRI. MAR. 6 - 10AM Horse Sale at New Holland Sales Stables, New Holland, PA. Abe Diffenbach, Manager.

FRI. & SAT. MAR. 6 & 7 10AM Ea. Day. 17th Annual 2 Day Consignment Sale of all types of Farm Eq. to be held at the Donald Scheese Farm, RD#3, Elmer, NY. 609-455-3462. Consignments accepted up to Thurs., Mar. 5. Blaine Rentzel & Clyde Wolgemuth, Aucts.

SAT. MAR. 7 - Robert Reherd Farm Machinery Sale. Airville area, York Co. J. Everett Kreider, Auct.

SAT. MAR. 7 - 9AM Horses, Cattle, Hogs, Old Engines, Farm Mach. Mifflin Co., 2 mis. NE of Reedsville, PA, on Church Lane. Eli J. & Barbara Yoder, Owners. Mark Glick, Auct.

SAT. MAR. 7 - 9:30AM Farm Eq., HH, Antiques. Located along Newswanger Rd., 1 mi. E. of Hinkletown, Ephrata Twp., Lanc. Co., PA. Terms by: Alvin H. & Anna Weaver. Paul W. Horst & John Fry, Aucts.

250-350 HEAD SPECIAL HORSE SALE WORK HORSES-MULES & DRIVING HORSES

FRIDAY, JANUARY 9, 1987

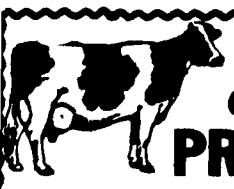
AT NEW HOLLAND SALES STABLES, INC.
12 Miles East of Lancaster, Pa. just off Rt. 23, New Holland, Pa.
Tack 9:00 A.M. Sale 10:00 A.M.

* 2 Load Work Horses, Mules, and Driving Horses consigned by Ward Wright.
* 1 Load Work and Driving Horses consigned by Bub Leonard.
* 1 Load Driving Horses consigned by Clayton Waterbury.
* 1 Load Driving Horses consigned by Jonas Beiler.
* 1 Load Driving Horses consigned by Reuben G. Stoltzfus.
* 1 Load Driving Horses consigned by Elam B. Stoltzfus.
* 1 Load Saddlebred Driving Horses consigned by Christ Stoltzfus.
* 20 Head Work Horses from Michigan consigned by Dave Bishop.

Plus many more consignments by sale time.

For more information contact:
Abe Diffenbach, Mgr. 717-354-4341
Norman Kolb 717-397-5538

NEXT HORSE SALE JAN. 23 10:00 A.M.



GAY RIDGE FARM PRODUCTION SALE

On the farm at 2402 Green Valley Road, near Ijamsville, in Frederick Co., Md. From I-70 take Rt. 270 south to Hyattstown exit. Go 1 mile to Hyattstown, turn left onto Route 355 and go approx. 2 miles to Route 75 (Green Valley Rd.), turn right, first farm on left.

THURSDAY, JANUARY 15
11:00 A.M.

50 - REGISTERED HOLSTEINS SELL - 50
43 Cows - 7 Calves
(Born right for '87 Shows)

22 Milking with First Calf - 10 with Second Calf
24 Head just fresh - 10 Due after sale
12 Sell with records from 20,000 to 26,060 milk
5 Very Goods Sell - 14 Good Plus
(All as young cows)
36 Sell from VG Dams or Gr Dams
(one from EX Dam)
21 Sell from dams with 800 to 1078 fat

FLASH!

3 Cows milking from 101 8 to 120 8 lbs
3 Cows milking from 93 3 to 95 5 lbs
14 First-calf heifers are now fresh
3 milked 82 lbs 8 are milking from 72 to 79 6 lbs
3 milking from 66 3 to 69 6 lbs
Remainder to freshen by sale
Tested for Interstate Shipment
Pregnancy Examined
Sale in heated tent

For Catalogs Contact:
OWNER:
DONALD WILCOM & FAMILY
Box 2402B Green Valley Rd.
Ijamsville, MD 21754
Phone 301-662-7086

SALE MANAGER
REMSBURG
Sale *Service*
P.O. Box 177
Jefferson, MD 21755
Phone 301-473-8214

PUBLIC SALE

REAL ESTATE
THURSDAY, JAN. 22, 1987
1:30 P.M.

Approximately 2 Acres in Paradise Twp., Lancaster County, Pa. 4 Mile East of Strasburg Along Rt. 896.

Improvements consist of 3 bedroom ranch type house, kitchen and dining room, full bath, full basement, well, new septic system 1982, 24x20 horse barn, 22x25 shop presently being used as blacksmith shop, easily converted to a 2 car garage, fenced in pasture, rail fence paddock, lot was approved for sub division, producing fruit trees, and grape vine, excellent location.

No guarantee of authenity on ad announcements sale day take precedence over listing ad.

10% down sale day final settlement 90 days, to see property call before 8 a.m. 717-786-4624.

Owners,
LEON & KATIE PEACHEY

Auct. Steve
Steve Jr. Petersheim
AU001349L

PUBLIC SALE

WEDNESDAY, JAN. 21, 1987
10:30 A.M.
Hi-Grade Holstein Herd
Milking Equipment - Feed
Farm Machinery

Located in Lancaster County, Pa. 5 East of Intercourse, 2 miles west of White Horse, from Rt. 340 go south on Spring Garden Rd., 1st farm.

59 Head **59 Head**

41 MILK COWS, 18 HEAD OF HEIFERS

Springing to calves, all vaccinated, 20 head milking with 1st and 2nd calf, all bred to A.B.C. bulls, all heifers and most of cows sired by A.I. bulls, Skyler, Stewart, etc., rolling herd avg. 15,650 M, 3.7 fat. 11 head fresh and due Nov., Dec., Jan. Animals with records over 21,000 M. 30 day charts, veterinary preg. checked.

AUCT. NOTE: An opportunity to purchase good producing and high test.

Milking Equipment

500 gal. Mojonnier milk tank 3 Surge 50 lb. units, 3- S.S. strainers, 3- S.S. carrying pails, S.S. twin tubs, dumping station milk mover, gas water heater, 300 gal. girton milk tank, 20 hp Petter diesel A1 condition, with speed clutch sells separate, Lehigh cooler compressor, Utile MP80 vacuum pump new 1 year, Westfalia vac. controller, large 12 volt battery new 86, line shaft and pulleys, barn desk, Herdex breeding calendar.

Farm & Barn Equipment

W6 International tractor gas on steel, smoker elevator, Hdy. motor and hose, circular saw, cattle gates, mineral feeder, 2 pig feeders, elec. fencer, fuel tank, wagon load of small items.

Feed

App. 15 ft. corn silage in 12x60, alfalfa mixed hay, straw.

Owner: DAVID I. STOLTZFUS

Auct.. Steve
Steve Jr. Petersheim
AU001349L

Food on Premises

Jacob W. Nauman, Inc.
PUBLIC AUCTION

VALUABLE REAL ESTATE
MILL WORKING EQUIPMENT, LUMBER, HARDWARE ITEMS, VEHICLES, FORKLIFT, INDUSTRIAL TRACTOR
FRIDAY EVENING, JANUARY 23, 1987
Starting At: 5:00 P.M.
SATURDAY, JANUARY 24, 1987
Starting At: 9:00 A.M.
*** Real Estate At: 10:00 A.M. ***

LOCATION: MANHEIM, PENNSYLVANIA
Approx. ½ mile north of square, along Route 72.

FRIDAY EVENING AUCTION CONSISTS OF: Store & Do It Yourself Items, Small Tools, Paints, Stains, Hardware Items, Office Furnishings, Misc. Other Items

REAL ESTATE CONSISTS OF Approx 2 Acres Tract of Land

- 50'x140' warehouse w/steel siding w/12 and 16' ceilings Concrete floor w/part basement
- 32'x40' concrete block shop building w/3 floors, w/20 x20' additional concrete block spray area Heated by oil steam heat w/additional wood furnace
- 24'x30' frame building, store & office building w/2 floors, w/carpeted office area, show room area w/powder room
- 40'x70' frame lumber storage building

All measurements are approximate Boro water All building in good repair

To inspect real estate go to property anytime on any business day from 8 00 A M - 4 00 P M or call (717) 665-2312

TERMS: 10% down day of auction. Balance within 30 days.

J. David Young: Attorney

3400 Gas Ford Industrial Tractor w/Loader
1967 GMC Flatbed Pickup V-6
1969 Ford Econoline Van V-8
1970 GMC Truck w/12' Dump Bed
1977 GMC Truck w/14' Dump Bed
H 70 B Hyster Fork Lift 7000 lb Capacity
Ford 3 Pt Sickle Bar Mower
12" 3 Pt Post Hole Digger

Shop Equipment

24" Powermatic Planner #225 w/Knife Sharpener
12" H B Smith Table Saw
16" Jointer w/7' Bed
2 14' Dewalt Radial Arm Saws
Beach Platform Belt Sander
Beach Shaper 1" Spindle & Misc Cutters
Millbury Tenant Machine #LT 106
#321 Wyson & Miles Mortise Machine
36" Hall & Brown Band Saw #186
Dust Collector and Duct #6 Champion Blower
3 Phase All w/Motors

110V 36" Rockwell Delta Wood Lath & Stand & Tools
110V 8" Black & Decker Plywood Panel Saw #3480
110V 6½" Black & Decker Plywood Panel Saw #1103
110V 10" Rockwell-Delta Table Saw w/Stand
110V 10" Craftsman Radial Arm Saw w/Stand
220V 8" Dewalt Radial Arm Saw
220V 1 H P Sears Portable Air Compressor
220V 1½ H P Emglo Portable Air Compressor
220V ½ H P Stationary Air Compressor

#315 Craftsman Router w/Table, 1/5 H P Rockwell Bench Grinder, Black & Decker Belt Sander w/Bag, Rockwell Power Mitre Saw, Spray Equipment & Air Lines & Filters, Model 46 A-115 1 Homelite Generator, Air Nailer & Staplers, 7 H P Witman 4 Blade Cement Finishing Machine, 7 H P Witman 3 Blade Cement Finishing Machine Portable Kerosene Heaters

2 Asbestos Cutters, Slate Tools Metal Scaffolding Post Jacks Extension Ladders, Step Ladders, Mitre Saws, Bar Clamps, C Clamps, Platform Scales 30 lb Capacity Scale, Office Equipment, Olympia Typewriter Calculators Safe, Oak Office Desk, Shelving & Display Racks

Cedar Wood Shingles Misc White Pine Moudlings Solid and Finger Jointed Oak Cherry, Birch, & Walnut Cabinet Mouldings Birch & Lauan Doors Flueliners & Draintile Flagstone Oak Birch, Poplar, Cedar Pine Treated, Lumber 1x3 Firring Lath, Gravel Mix Cabinet Hardware, Door Hinges & Locks All Types Thresholds & Door Bottoms Paint & Sandpaper, Barn Door Hardware & Track Router Bits, Drill Bits Misc Hand Tools Saw Blades, Nails Screws Bolts Glass Alum Basement Windows Wood Sash, Steel Angles & Lintels, Peg Board Plastering Wire Alum Soffit & Fascia Alum Storm Doors & Windows 15 lb Felt & Misc Roofing, Vestal Fireplace Dampers Many Other Items

TERMS Cash or Approved Check

Food By Manheim Christian Day School

Auction For:
JACOB W. NAUMAN, INC.,
DONALD O. NAUMAN, PRESIDENT
717-665-2312

Auction Conducted By The:
J. OMAR LANDIS AUCTION SERVICE
Jay M. Witman AU-0001127-L
Box 501, Apple & Robert Sts.
Ephrata, PA 17545
717-627-0789 or 665-5735

"Our Services Often Copied But Never Duplicated"

Dairy and Livestock Sales

Public Auction Register

Closing Date Monday 5:00 P.M. of each week's publication

SAT. MAR. 7 - 9:30AM; Real Estate 2PM. Lot 147 Perches, 2½ story frame dwelling. Located 171 E. Main St., village of Bareville, between New Holland and Leola. Terms by: Esther, Edna and Grace Wenger. Robert E. & Jeffrey R. Martin, 717-656-7770. Frank L. Steller, Aucts.

SAT. MAR. 7 - Farm Eq. & Tools. David H. Martin, along New Holland Road, 1 mi. S. of New Holland. Nevin Martin & Lewis Groff, Aucts.

SAT. MAR. 7 - Bart Twp. Fire Co. All Day Sale of Horses & Mules, Farm Eq., Hay & Straw, Building Materials, HH. Located Village of Georgetown on Rt. 896. Lanc. Co.

SAT. MAR. 7 - Farm Eq. Located between Lincoln and Brunnerville, PA. Allen W. and Bertha W. Weaver, Owners. Paul Martin & John D. Stauffer, Aucts.

SAT. MAR. 7 - Farm Mach. RD #3, Newville, PA. C. Everett Warner & Rodney Nailor, Owners. Kling's Auct. Serv., Sale Mgrs.

MON. MAR. 9 - Consignment Sale. Farm Machinery & Related Items. Lebanon Fair Grounds. Held by: Lebanon Valley Auction Co. For information: 717-866-2135 or 717-272-4641

TUES. MAR. 10 - Farm Eq. & HH. Martin W. Zeiset, along Churchtown Rd., 1½ mi. S. of Churchtown. Nevin Martin & Lewis Groff, Aucts.

TUES. MAR. 10 - Dairy Herd Dispersal. RD, Mechanicsburg, PA. Norman Hertzler, Owner. Kling's Auct. Serv.

WED. MAR. 11 - 11AM Big Late Model Grain Farm Machinery Auction. 211 Upper Silver Lake Rd., Newtown, PA. All one owner, well kept. Amos & Gary Kirk, Owners. Col. Fred R. Daniel Aucts., Inc.

THURS. MAR. 12 - Farm Mach. Mechanicsburg, PA. Ashcombe Farms, Owners. Kling's Auct Serv., Sale Mgrs.

THURS. MAR. 12 - 10AM Farm Machinery, Dairy Eq Centre Co., 2 mis. E. of Centre Hall, PA, on Rt 192. Harry & Alice McCelenahan. Mark Glick, Auct.

THURS. MAR. 12 - 10:30AM PA Seventh Annual Heifer Sale for World Relief. Mel Kolb's Black and White Dairy Barn, Dairy Rd., Lancaster, PA. 2 mis. W. use Flory Mill Rd. exit. Wilmer G. Kraybill, Sale Mgr. John Umble, Lee Kurtz & Omar Stoltzfus, Aucts.

THURS. MAR. 12 - 11AM PA 7th Annual Heifer Sale for World Relief at Mel Kolb's Sales Barn, Lancaster, PA. Wilmer Kraybill, Manager.

FRI MAR. 13 - Consignment Farm Machinery Auction at Keister's Middleburg Auction Sales, Inc., Rt. 522, 3 mis. E. of Middleburg, PA, 5 mis. W. of Selinsgrove, PA. Don & Walt Keister, Owners.

FRI. MAR. 13 - 9AM Farm Eq. New Holland Sales Stables, Inc., New Holland, PA. Abe Diffenbach, Manager.

SAT. MAR. 14 - Robert Webb, House & HH Goods. Fawn Grove area, York Co. J. Everett Kreider, Auct.

SAT MAR. 14 - 8:30AM 19th Annual Spring Auction for the Gordonville Fire Co. Quilts, HH, Antiques, FE, Livestock. Terms by: Sales Committee. Ron Funk & Local Aucts.

TUES. MAR. 17 - York Co. Fairgrounds, York, PA. York-Adams Co Calfarama Sale. Sponsored by York & Adams Co. Holstein Club, Kling's Auct. Serv

TUES. MAR. 17 - 9AM Registered Holsteins, Farm Machinery. Mifflin Co., 1 mi N. of Belleville, PA John Y and Irene Bawel. Mark Glick, Auct

THURS. MAR. 19 - 9:30AM Farm Eq. & Milking Eq. Located Rt. 74 S. of Airville, turn W. on Bridgeton Rd. go 1½ mis. to crossroad and continue straight to first lane on right. Mr. & Mrs. C. Robert Kilgore. Blaine N. Rentzel, Auct.

FRI. MAR. 20 - 6:30PM Consignment Sale of Feeder Pigs and Feeder Cattle. Keister's Middleburg Auct. Sales, Inc., Rt. 522, 3 mis. E. of Middleburg, PA, 5 mis. W. of Selinsgrove, PA. Don & Walt Keister, Owners.

FRI. MAR. 20 - 7PM Horse Sale at New Holland Sales Stables, Inc., New Holland, PA. Abe Diffenbach, Manager.

FRI. MAR. 20 - Farm Mach. Carlisle, PA. John Lippert, Owner. Kling's Auct. Serv., Sale Mgrs.

SAT. MAR. 21 - 8:30AM Valuable Antiques, Farm Machinery, Personal Property. Stoney Battery Rd., Mountville, PA. For: J. Harry Enders. J. Omar Landis & Jay M. Witman, Aucts.

SAT. MAR. 21 - 9AM Kempton Community Center, Northern Berks Co. 24th Annual Spring Sale. 14 Aucts. 215-756-6973, 756-6532.

TUES. MAR. 24 - Ben Herr Farm Machinery Sale Chestnut Level area. J Everett Kreider, Auct.

WED. THURS. FRI. MAR. 25, 26, 27 - Large Three Day Sale of Farm Eq., etc., at our place of business, 1 mi E. of Marion, PA, off Rt. 81. Ralph W. Horst, Manager.

SAT. MAR 21 & SAT. MAR. 28 - 2 Day Auction of 4 Tractors, Power Machinery Tools, Antiques, Livestock, Furniture, Local Collectibles. Formerly Stubbs & Evans Farm. #403 Woods Rd., Oxford, PA. By order of Donald G. Brown, Owner. Jeff E. Whiteside & Harry W. Whiteside, Aucts.

SAT. MAR. 28 - George McDonald Farm Machinery, Milk Tank & Tools Rising Sun, MD. J. Everett Kreider, Auct.

SAT. MAR. 28 - Farm Mach., Lawn & Garden, Tools, Furniture, and Miscellaneous Consignment Auction. From Exit 21 of PA Turnpike take 272 South to first light, take Church St. through Rheemstown to Red Run Rd., turn left on Red Run Rd., go 1/10 mi. turn left on Steffy Rd., approx. ½ mi. on left. Terms by: Arthur Nolt and Allen Martin. Roy Good, Jr., Randal V. Kline and Lloyd Kreider, Aucts.

SAT. MAR. 28 - 8:30AM Tack; 10:30AM Horses. Keister's Middleburg Auction Sales, Inc., Rt. 522, 3 mis. E. of Middleburg, 5 mis. W. of Selinsgrove, PA. Don & Walt Keister, Owners.

APRIL

FRI. APR. 3 - 9AM Farm Eq. New Holland Sales Stables, Inc., New Holland, PA. Abe Diffenbach, Manager.

SAT. APR. 4 - Lions Club Sale. Wakefield area. J. Everett Kreider, Auct.

SAT. APR. 4 - The House of His Creation Benefit Sale. Steve Petersheim & Steve Jr., Aucts.

FRI. APR. 10 - 7PM Horse Sale. New Holland Sales Stables, Inc., New Holland, PA. Abe Diffenbach, Manager.

FRI. APR. 17 - 6:30PM Consignment Sale of Feeder Pigs & Feeder Cattle. Keister's Middleburg Auct. Sales, Inc., Rt. 522, 3 mis. E. of Middleburg, PA, 5 mis. W. of Selinsgrove, PA. Don & Walt Keister, Owners.

SAT. APR. 18 - New Danville Mennonite School. J. Everett Kreider, Auct.

TUES. APR. 21 - 7PM Feeder Pig Show & Sale. New Holland Sales Stables, Inc., New Holland, PA. Abe Diffenbach, Manager.

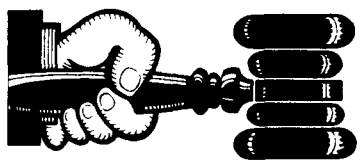
FRI. APR. 24 - 9AM Farm Eq. New Holland Sales Stables, Inc., New Holland, PA. Abe Diffenbach, Manager.

FRI. APR. 24 - 6PM Reg. and Grade Heifers, all ages. At the Belleville Livestock Mkt., Belleville, PA.

SAT. APR. 25 - 8:30AM Tack; 10:30AM Horses. Keister's Middleburg Auct. Sales, Inc., Rt. 522, 3 mis. E. of Middleburg, PA, 5 mis. W. of Selinsgrove, PA. Don & Walt Keister, Owners.

SAT. APR. 25 - Consignment Sale of Farm Machinery & Lawn Eq. New Park, York Co. J. Everett Kreider, Auct.

SAT. APR. 25 - Geet Ministries Benefit Sale. Steve Petersheim & Steve Jr., Aucts.



AUCTIONEER'S DIRECTORY

NOTICE

To assure that your Public Sale appears in the Public Sale Section we must have your advertisement by 4 P.M. Tuesday of each week's publication

WOLGEMUTH AUCTIONEERS
R.D. #2 Manheim Pa.
COMPLETE AUCTION SERVICE
C.H.
PH 717 665 5664
BOB
PH 717 665 6684
DENNIS
PH 717 627 0571

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1050 Eden Road
Lancaster,
PA 17601

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Lancaster 717-569-2079
Evenings/Lititz
717-627-8008

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R.D. 1, Box 553
Stevens, Pa. 17578

JOHN D. STAUFFER
217 Andrea Dr.
Lititz, Pa. 17543

Complete Auction Service. We assist you and advise you from the planning stages of your auction to the completion of your auction.

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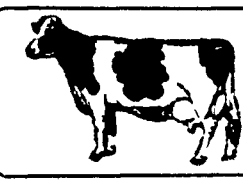

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11:30	Spotted	11:30	Duroc
1:00	Polands	1:00	Hampshires
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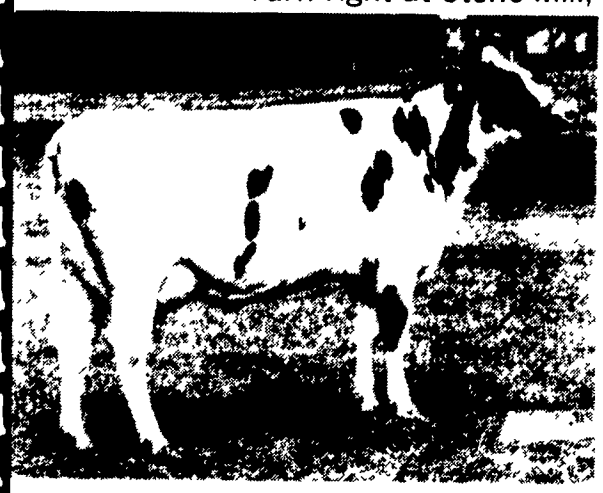

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Gladys — EX-91 Altitude EEEE, 4-2 365 28,560 968 Sells fresh 115 lbs for tester Dam VG Galaxy VEVV 21,200 758

Anita — VG 87 Sexation VG Mam Due 4/87 to SWD Valiant 3-1 305 20,900 4 0 839 Dam 24,350 3 6 870

Gracie — VG-86 Jason due by sale date to Pierre Dam Triple Threat 311 18,990 607

10 of the 15 Valiants Listed Alphabetically

Annie — 2 yr old Valiant Fresh 11 7-86 1st test 60 lb 4 9 Dam Anita VG Sexation VG Mam 20,900 4 0 839

Cherie — G+83 Valiant sells fresh 70 lb 4 0 for tester 4-0 303 23,080 3 6 829 Cow Index +735 Dam G+83 Botmaker VG Mam 20,760 671

Jenna — VG Valiant Bred to Improver 3 2 305 21,710 3 7 793 Cow Index 897 Dtr by Leprechaun due 2-9 to Valiant

Jigs — Valiant due 3 2 to Monitor with 1st calf Dam VG Triple Threat VG Mam 15,780 4 1 645

Joyful — VG Valiant VG Mam bred to Elevation Mars 2 8 319 18,480 3 8 699 Cow Index +750 4 7 proj 22,270 803 Dam 24,650 850 Next Dam 24,760 868

Juppy — VG Valiant VG Mam Fresh 87 lb for tester 2 11 321 17,902 3 5 631 Dam by Willow 3 0 15,271 4 1 620

Justy — VG Valiant VG Mam due 1-17-87 to Monitor 2 5 326 20,497 4 0 819 Cow Index +556 Dam VG 86 Elevation Mars VG Mam 19,520 4 3 841 Gr Dam VG-86 Bootmaker 21,710 3 9 848

Kim — VG-86 Valiant VVVV due by sale date to Teletype 2 8 327 21,535 4 0 852

Tessie — G+83 Valiant Bred to Elevation Mars 2-2 340 16,710 4 3 721 Had 74 lb for tester Dam VG-86 Bootnick VG Mam 18,880 3 7 704 Gr Dam VG R-Maple 21,190 3 9 824

Crissy — G+82 Mars bred to Valiant Don 3-2 365 18,010 4 2 748, 4-5 320 21,772 3 9 841 Dam EX Astronaut VEEE 20,290 4 1 838

Donna — G+ Jason bred to Monitor Dam Drucie VG-88 Golden Nugget sells 3-6 365 23,860 3 6 864

Jacet — Columbus bred heifer due 5/4 to Monitor Dam VG 87 Ivan Rockman VG Mam 24,310 4 2 1,014

Jen Ann — VG 86 Mars EX Mam due 3/28 to Valiant Don 3-9 312 21 672 3 6 788 Dam by Bootmaker 21,010 3 7 784

Jiggy — G+ Elmer Chief bred to Gold 3-2 305 16,764 4 1 687 Dam VG-85 Triple Threat VG Mam 15,780 4 1 645

Joy — G+83 Milestone bred to Gold 2 7 365 17,070 4 0 689 Dam VG Capsule VG Mam 19 650 3 9 765

Juggy — Sexation sells fresh had 66 5 for tester as 1st calf heifer Dam 25 270 3 7 937

Julia — VG-86 Milestone sells fresh 4-6 365 23,800 4 0 960 Dam by Elevation 17,490 626

Justa — VG-86 Mars VG Mam due 1-14 to Milestone 4 1 365 19,520 4 3 841 Dam VG 86 Bootmaker VG Mam 21,710 3 9 848

Kara — Dairyman dtr due 4 14 to Valiant Dam VG-86 Elevation VG Mam 20,800 4 0 835

Karol — G+83 Bootmaker Orgie bred to Valiant Don 4 2 365 25,070 3 6 915

Kringle — Columbus heifer due 3 3 to Valiant Dam VG-86 Triple Threat 24,030 4 0 953 Gr Dam G+83 29,370 1,004

Orella — G+83 Willow VG Mam Sells fresh 102 lb for 4-4 365 25,630 3 8 969

Shirley — G+83 Monitor VG Mam due 1-19 to Valiant 318 19 711 646 3 3 Dam G+ Sexation 19,870 3 6 725

Stacy — G+ Sexation bred to Monitor 4 3 316 21,255 3 7 784 Dam VG-88 Bootmaker VG Mam 21,480 3 6 769

Sue Boo — G+83 Milestone sells fresh 98 lb for tester 4 11 308 23,855 760 Dam VG Jupiter GMD VG Mam 30 510 1,001 Gr Dam VG 24,660 830

Susa — VG-86 Pacemaker VG Mam bred to Merit 5 5 334 22 791 3 5 801 Dam VG-86 Monitor 19 340 3 7 715 Gr Dam VG 86 R Maple 21 740 744

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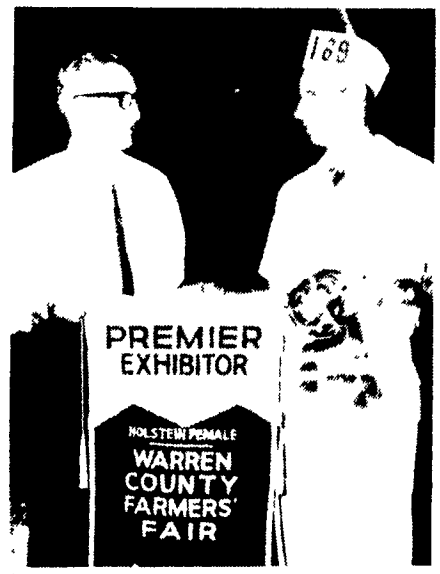

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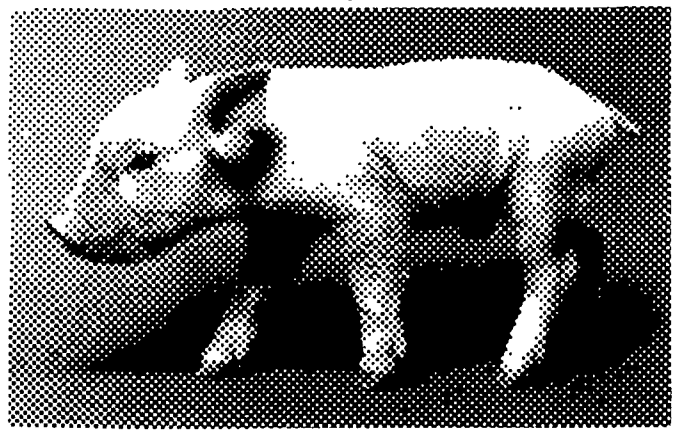

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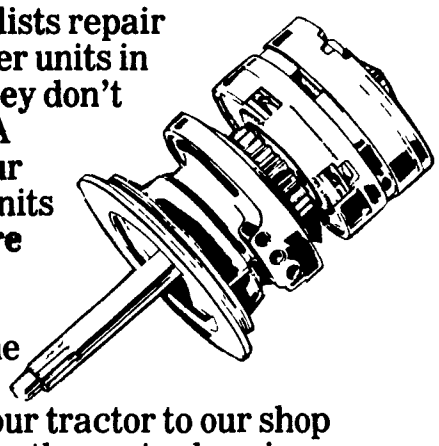

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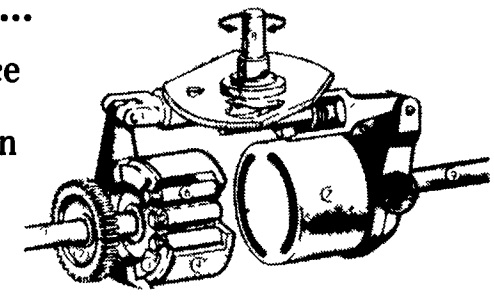

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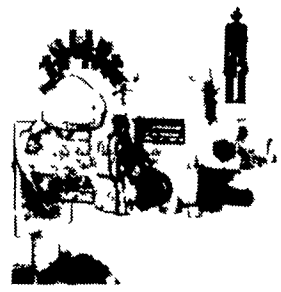

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Beef Briefs

by
Chester D. Hughes

Lancaster Co.
Extension Livestock Specialist

Thoughts From The Virginia Symposium

With the start of a new year, I felt I should share with you some fresh thoughts and ideas garnered from the proceedings at the recent Virginia Beef Seedstock Producers Symposium. I hope you enjoy reading these excepts from talks by industry leaders, and I wish you the very best in the New Year! If you would like more detail, give me a call.

H.H. Dickenson, executive vice president, American Hereford Association:

..."The seedstock industry is definitely in the age of product specification. Stacking pedigrees with performance documentation is the new art of breeding cattle. In this regard, the breeding principles relate precisely to those used in the golden era of pedigree breeding. But today's seedstock producer is faced with new challenges and changing responsibilities. That seedstock breeder is not required to accept these new responsibilities but he should remember that he will be competing with seedstock breeders who do accept these responsibilities. Tomorrow's "Master Breeders" will be those who "master" the art of utilizing and merchandising the new technology known as sire evaluation.

Roy Wallace, Beef Specialist, Select Sires, Inc.:

..."The past 20 years in most seedstock operations the bulls that have been utilized in the breeding programs have been the young bulls of the population. Most of the time when university people and breed association people discuss breeding programs, they emphasize that you should be using young herd sires in your breeding program. Because of this particular thrust people have come to believe that any bull three years of age and older we have gone by genetically.

The promotion of using young bulls to move a population forward the fastest was probably valid before national sire summaries. Since the advent of across-the-breed national sire summaries and the reduced animal model, we now can really take a look at the breeding values of the bulls in a population and also what the estimated EPD's of these young animals in the population.

When we start to compare the young bulls with the proven bulls in the population, a person starts to realize that the only young bulls in the population that look good are sons of the top proven bulls in the summary, and the ones that really look outstanding are out of daughters of high ranking bulls in the sire summary."

D.R. Notter, Animal Scientist, Virginia Tech:

..."Without question, the size of the average cow in seedstock beef herds has increased markedly over the past 20 years. In most herds it is continuing to increase, although sometimes at a lesser rate. Some of the effects of these increases are clear whereas others are not. Genetic potentials for growth rate has clearly increased and fatness at traditional slaughter weights has declined. These changes, taken singly, are basically good. But an increasing proportion of slaughter cattle are now finishing to choice grade at weights that are heavier than packers are readily willing to accept, and the time has perhaps come to question future direction in seedstock selection programs. Should growth rate, lateness of maturity and mature size receive the same emphasis in the future that they have in the past? Or should they be deemphasized in favor of other traits?

In progressive commercial cattle operations there is probably no longer a pressing need to increase cow size. Small-framed feeder calves continue to be produced and marketed (at a substantial discount) in Virginia. But the producers of these calves cannot claim that they do this because more appropriate germplasm is not available. Instead, inertia and a false sense of economy when buying bulls are probably the real culprits. Most serious commercial cattlemen have already developed herds of cows of a size that is sufficient to allow consistent production of medium- or large-framed feeder calves, depending only upon the sires that they choose to use. Some of these cattlemen have also reached a point at which it is no longer evident that production of larger-framed calves is necessarily in their best interest, especially if these calves are sold at weaning.

The seedstock breeder is the mover and the shaker of the beef cattle industry. He must be ahead of the game and anticipate the needs of the commercial producer. It is not his responsibility to produce the ideal beef animal. Instead, his role is to produce bulls that can, when mated to existing commercial cows, produce offspring that at least approach the ideal. That was the reason why, when cows were clearly too small and calves were clearly too early maturing, we needed extremely large, late maturing sires to change our commercial cows. Now, however, more and more commercial cows are quite acceptable in size and continued selection for very large-framed purebred cattle is less clearly in the best interest of the cattle industry. In particular, the time has come to critically look at the relationships between size and other performance traits and to ask if continued selection for size is likely to produce antagonistic changes in other traits."

W.E. Beal, Animal Scientist, Virginia Tech:

..."The obvious intention of estrous synchronization is to synchronize estrous cycles of cows such that labor for heat detection and artificial insemination can be reduced. A hidden value of some estrous synthronization treatments is the ability to induce the first estrous cycle in some cows that are not cycling following calving. This ability to induce or "jump start" noncycling cows only comes with treatments that include progesterone-like drugs administered for a week or more by implant or in the feed.

The benefit of "jump starting" non-cycling cows at the beginning of the breeding season is that it increases their chances of becoming pregnant. Furthermore, they are more likely to become pregnant early in the breeding season. Admittedly, conception rates of "jump started" cows have varied from 66 to 25 percent. However, even when the initial conception rate was low, the cows continued to cycle and the second service conception rate was normal. My interpretation has been that "jump started" cows are consistently bred earlier than if they were not treated with such estrous synchronization drugs."

And...

..."Unfortunately, we have gone 20 years without a major change in insemination techniques which could improve A.I. conception rates. Current research regarding the site of deposition of semen in the reproductive tract may provide a way to improve conception rates in the future. For years A.I. technicians have been taught to deposit semen in the body of the uterus, just beyond the internal opening of the cervix. Placement in the uterine body allows semen to be dispersed equally into each uterine horn.

The current research has been aimed at determining if depositing one-half of the volume in each insemination dose into each uterine horn ("horn breeding") would result in greater conception rates than attempting to deposit the semen in the body of the uterus The philosophy behind "horn breeding" is that equal deposition in each horn may decrease the likelihood that semen is lost by flowing backward to the vagina or it may decrease the chance that semen is all directed into one horn of the uterus."

Berks Cattlemen Slate On-Foot, On-Rail Evaluation

With grading standards, consumer demands, and today's economics encouraging beef producers to grow a leaner carcass, it is essential that they evaluate their animal's carcass qualities. This analysis will help sharpen the judging eye to select the right kind of animal. Feeding programs and breeding can also be analyzed when live and carcass evaluation is made.

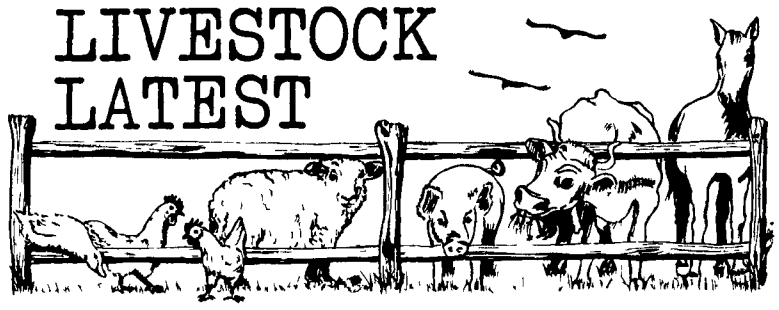
For these reasons, the Berks County Cattlemen's Association and the Penn State Cooperative Extension Service in the southeast invite you to participate in an "On-Foot-On-Rail Beef Evaluation Program on Jan. 19, and Jan. 22. The On-Foot session will be held at the Leesport Market & Auction, Rt. 61, north of Leesport. The On-Rail session will be held at Peters Brothers Meats in Lenhartsville. Lenhartsville is located just off Route 78 (22) between Hamburg and Allentown.

The live evaluation will take place on Jan. 19 at 7:30 p.m. Animals must arrive at 6:30 p.m. Larry Marshall, buyer for Moyer's Packing, will help evaluate each animal.

The carcass evaluation will be conducted by Dr. Willilam Henning, Penn State Extension meat specialist, on Jan. 22, 1987 at 7:30 p.m. The carcass will be analyzed for loin eye, backfat, quality grade, maturity and yield grade.

Any beef producer in the southeast counties of Pennsylvania is invited to bring one animal. Cost is $12 which will pay your dues for the Berks County and Pennsylvania Cattlemen's Association plus a subscription to the Livestock Breeders Journal Those not bringing animals will be charged $4 to cover costs.

For an application form, call the livestock Extension agent in your county or contact Clyde Myers at the Berks County Agricultural Center, Leesport 19533. Phone 215-378-1327.



'Health Managed' Cattle Sell Well For NY Cattlemen

ITHACA, NY — The New York Beef Cattlemen's Association's first state-wide marketing program of health managed cattle was reported successful with 90 per cent of the cattle consigned being delivered and with a remarkably low death rate or illness noted by the buyers.

The New York Beef Cattlemen's Association developed and implemented this program in 1986 with the assistance of a $30,000 grant from the State Department of Agriculture and Markets in recognition of the need for such a program. Working closely with the Cattlemen's Association was Cornell University and the Department of Agriculture and Markets.

"We far exceeded our first-year goal of marketing 700 to 800 head, with a total of 1,339 health managed feeder cattle consigned and 1,207 of these delivered to the three assembly points," said Lee Kraszewski, program coordinator. He added, "we are anticipating marketing 2,000 head in 1987."

He reported contact with the 16 buyers from five states within two weeks of delivery and again in the last weeks showed a death loss of only one per cent and very little stress. Most buyers reported no or only minimal health problems in spite of the changeable weather. Kraszewski said a Pennsylvania buyer told him, "these were some of the best feeder cattle I have ever had. They are right on feed and the health problems have been minor."

"We have shown successfully that health management pays off for the producers," Kraszewski said. "The practices such as worming and giving selenium shots resulted in the yearlings obtaining greater weight than anticipated. This increased weight returned more money for the producer," he continued.

Another goal, that of ensuring fair market prices for feeder cattle, was achieved. Krazewski reported the overall average for the steer calves was 67.77 cents per pound, for the heifer calves, 56.13 cents per pound; for the yearling steers, 56.49 cents per pound; and the the yearling heifers, 47.28 cents per pound. The sale of the 1,207 head grossed $401,000

Seven hundred ten head were purchased by nine buyers in New York State; 160 head by four buyers in Pennsylvania; 66 head by one buyer in Virginia; 195 head by one buyer in Indiana; and 80 head by one buyer in Illinois. "We proved with this marketing program that large numbers of uniform health managed feeder cattle will easily attract the larger order buyers and enhance price and demand," Kraszewski said.

Pork Board Names Committees To Implement Checkoff

DES MOINES, Iowa — The National Pork Board devoted most of its second meeting, held December 17-18 in St. Louis, to getting itself formally structured. The 15-member Board, which has the responsibility of collecting and disbursing funds generated under the new pork producers 100 percent legislative checkoff, received a preliminary report on how the checkoff, which started Nov 1, is proceeding.

Board executive director, Mike Simpson, said that through Dec. 12, $1.1 million had been collected. Revenue from hog and pork im port checkoffs during the month of November totaled $70,600. Simpson cautioned that it is still too early to draw much significance from collection figures.

The board named three standing committees at its St. Louis meeting. Five board members will serve on each committee. Hilman Schroeder of Sauk City, WI. will chair the administrative committee which will have responsibility for supervising accountability for all programs, projects, funds and contracts involving the Pork Board. Harold Trask of Renwick, IA will serve as chairman of the budget committee which will review and approve all industry budgets involving distributed checkoff funds. Ritchie Jordan of Suffolk, VA will chair the audit committee which will be responsible for reviewing audits of all industry programs, budgets and expenditures involving the use of checkoff funds.

At its December meeting, the Pork Board accepted the Policy Development Group (PDG) concept for obtaining producer input on industry priorities and programs. Under the concept, 12-15 persons serve on a committee representing a particular area of responsibility such as research and promotion Representation on PDG committees is diverse, ranging from producers-at-large, to members of the national leadership Such a system has been an integral part of the National Pork Producers Council (NPPC) planning process for several years

The Pork Board formally called for organization of an industry operating committee which would review board industry programs and projects, coordinate industry program plans, and recommend allocation of funds for industry programs to the National Pork Board. The committee would also serve as a new PDG group that would have the responsibility of

(Turn to Page C4)

Eller To Address NY Cattlemen's Convention

ITHACA, N.Y. — The Washington political scene as it affects cattlemen will be discussed by Burton Eller at the annual meeting of the New York Beef cattlemen's Association Jan. 9 and 10 at the Sheraton Inn, Ithaca.

Eller who is vice president, Government Affairs and Policy Coordination, National Cattlemen's Association, will be the banquet speaker Jan. 9.

Eller's role in Washington is to interpret the beef cattle industry and its problems to the legislative and executive branches of the federal government.

The two-day convention includes seminars Jan. 9 on marketing and forage management, a Trade Show, the annual awards luncheon Jan. 10 and the afternoon talk by John Francis, vice president of marketing. Beef Industry Council, National Livestock and Meat Board. Francis will discuss the nationwide Beef Checkoff. Henry Bono, chairman of the New York Beef Industry Council, will discuss the state program also.

The New York Cattlewomen and the New York Beef Cattlemen's Association will hold their annual membership meetings Jan. 10. The New York Charolais Association, the New York Shorthorn Association, and the New York Simmental Association will also hold their annual meetings during the convention.

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WEST DES MOINES, Iowa — Everyone involved in the production of beef wants it to be as safe and wholesome as possible when it arrives on consumers' plates.

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Syntex Animal Health, Inc., manufacturer and marketer of Synovex growth promotant implants, recently produced an eight-page, pocket-sized brochure entitled "How Implants Produce Safe, Wholesome Beef" that contains information ranging from implant ingredients to proper use.

To receive your free copy of "How Implants Produce Safe, Wholesome Beef" contact your Syntex Animal Health sales representative or Synovex distributor. Or, call Syntex Animal Health, Inc. at 1-800-247-2164. (In Iowa call 1-800-362-2388).

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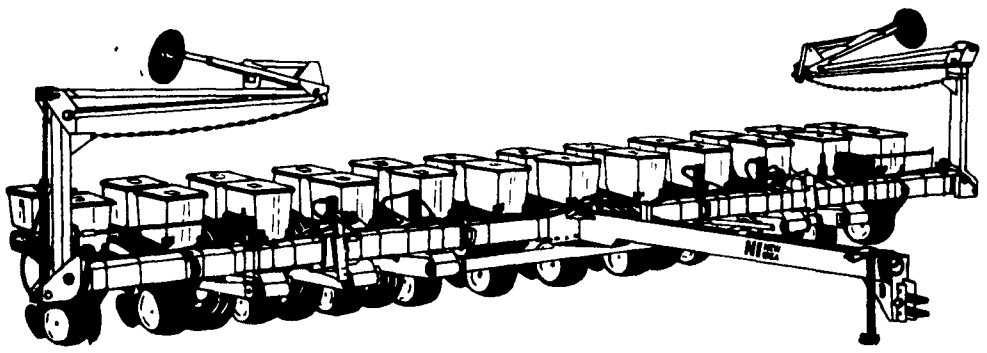

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Cashing In On Hog Farm 'Waste'

BY RICHARD BARCZEWSKI
University of Delaware

NEWARK, Del. — The fall of the year always drives home some hard facts about agricultural waste to me. You see, as I drive up and down the highways in my job, I can't help but notice some of the sprouting grain in certain fields.

We all know that mechanical harvesting equipment will always leave some grain behind. However, when fields sprout greener than when the crop was present, something is definitely wrong with the harvesting equipment or process.

Similar types of waste can occur in hog operations. Perhaps the single and often the greatest waste is in feed. Wasted feed can add up to thousands of dollars of lost potential income, and the way it's wasted can vary.

Improperly adjusted feeders are the most direct cause. And almost all feeders can be adjusted to prevent waste. Feed should not be seen on the floor of the hog pen, and feeder bowls need not be full for optimum pig performance. Check the floors and under slots for wasted feed. If you find any, close feeder openings to adjust them.

Rodents are another cause of wasted feed. My father always told me that for every rat you see there are 10 more that you don't see. Individually, rats and mice may not consume much feed, but when you consider large populations of them, the loss adds up. Besides what they eat, rodents routinely urinate and defecate in feed making it less palatable. This reduced palatability may be robbing you of hog weight gains.

The final feed waster I want to discuss is parasites. This is one of the most overlooked problems in swine production — mainly because the waste is not obvious. It's hard to notice the feed being wasted through parasites on the skin that are hard to see, or to ones that are impossible to see because they're inside the pig's intestines. Routine parasite checks and subsequent treatments can save feed by improving weight gains and feed efficiency.

Feed isn't the only thing that's wasted on hog farms. Another wasted resource is manure. Manure is a fertilizer and if properly used, can substantially reduce fertilizer needs. The keys to proper manure use are analysis and calibrated application.

To use it effectively, manure must be analyzed for its nitrogen, phosphorus and potash content. Once you know what it contains, you can develop a program to calibrate and apply known amounts of manure containing known amounts of nutrients on cropland to reduce your commercial fertilizer needs.

Perhaps the most disappointing waste on a hog farm is the loss of piglets. When you consider that many sows have 10 or more live piglets at birth only to end up with seven or eight at weaning, the waste becomes obvious.

Saving piglets is not as easy as it may sound unless you're willing to spend extra time in the farrowing house. Assisting sows at farrowing can pay big dividends in increased weaning percentage.

I know of a producer who on occasion has achieved as high as a 14 live pig weaning average on a group of about 10 sows. That's almost twice the national average.

Saving pigs can be as simple as removing the amnionic sac off a piglet at birth. Even though most sacs break before the pig emerges from the sow, occasionally they are born encased in the sac. When the sac is not removed, piglets die from suffocation.

Another cause of piglet death at farrowing is chilling and weakness. Piglets are born with a very small amount of body fat. This makes it difficult for the pig to regulate its body temperature.

I've personally seen a piglet I'd given up for dead suddenly be brought back to life after being held in a bucket of warm water for about 15-20 minutes. This piglet was lying motionless except for a pronounced gasping every 20 seconds or so. I would never have thought it would pull through, but it lived beyond 21 days.

I laugh at myself now for thinking that pig was beyond saving. Seeing a potentially wasted pig and saving it, might well be worth your time.

Pork Board Names Committees

(Continued from Page C2)

establishing long-range strategic planning for the industry.

Under the proposal suggested by the board, three members of the National Pork Board and three representatives of the National Pork Producers Council, would serve on the Industry Operating Committee.

Pork Board chairman, Virgil Rosendale, said the main function of the Industry Operating Committee "will be to coordinate the planning and use of producer-generated checkoff funds to make sure it's consistent with proper input. The committee will also assure that all the industry's resources are being directed toward resolving identified industry issues in the most efficient manner possible," Rosendale added.

In other business at its December meeting, the National Pork Board adopted a report by a special Pork Board/NPPC committee that would establish a flexible but accountable system under which the Pork Board may contract with NPPC for specific services, as required. The arrangement, according to board executive director Simpson, "would permit the board to utilize existing industry resources."

The National Pork Board tentatively plans to hold its next meeting February 2-3, again in St. Louis.

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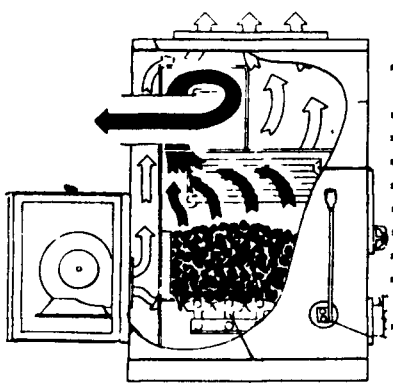

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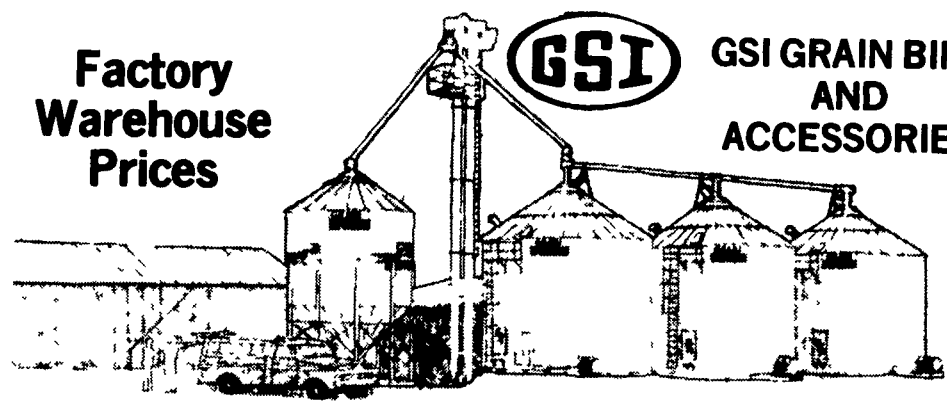

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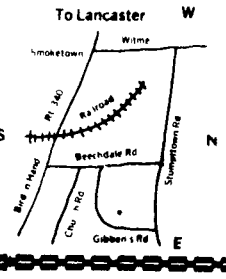

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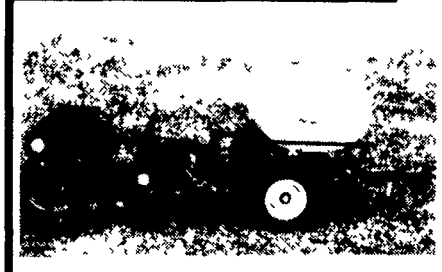

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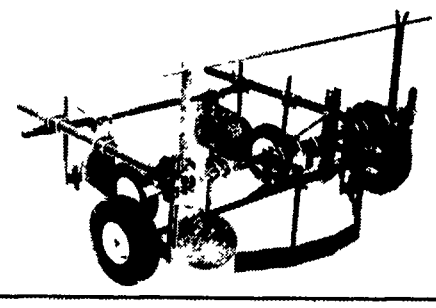

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Del. No-Till Meeting Slated For Jan. 14

NEWARK, Del. – The program has now been set for this winter's Delaware No-Till Meeting, scheduled to take place Jan. 14 at the Hartly Fire Hall. The event is being sponsored by the Delaware No-Till Council, a division of the Delaware Crop Improvement Association, in conjunction with the Delaware Cooperative Extension System and local agribusiness firms.

The theme for the upcoming meeting is "No-Till Farming – Managing For Success." According to University of Delaware extension weed specialist Frank Webb, the planning committee chose this theme because, while Delaware producers remain satisfied with no-till, the producers' experiences with the dry weather last spring have made them more aware of the need for careful management, particularly under adverse growing conditions.

Doors will open at 8 a.m. for exhibits, coffee and doughnuts. The program will get under way at 9:45 with opening remarks by chairman Ron Breeding followed by a presentation on chemical toxicity, protective equipment and safety precautions.

The next talk will address the issue of herbicide drift and its control, including volatility problems associated with certain old and new chemical compounds; drift control procedures; and tips on record keeping (time of day, wind direction, temperature and the like) as a means of protecting producers from potential lawsuits related to herbicide use.

The next session, "Getting Intimate with Your Sprayer," will deal with different sprayer types–what to watch for and tips on how to get the most out of them.

This will be followed by a talk on the use of no-till to establish hay crops (primarily alfalfa) and renovate pastures.

From 11:45 a.m. to 1:15 p.m. there will be a break for lunch ($2 a ticket) and viewing of exhibits.

The afternoon session will feature two grower panels– one on using poultry manure on no-till crops, the other on farmers' views of no-till as a production practice. Mark Isaacs, University of Delaware extension environmental quality assistant will moderate the discussion of poultry manure management, with growers Al Ross (Delmar) and Robert Winkler (Harrington) telling about their experiences with this nutrient source.

The final panel will be moderated by extension weed specialist Frank Webb and ag consultant Bruce Carlson of Ag Fertility & Field Services. Panelists will include Doug Corey (Bridgeville), Dale Ockels (Georgetown), Mike Scuse (Smyrna) and Dennis Clay (Middletown). Besides discussing problems encountered in no-till last year, the panelists will talk about changes they've made to improve no-till performance. Audience participation will be encouraged during this panel presentation, to increase the sharing of ideas on ways to improve no-till management.

The meeting will adjourn at 3 p.m.

Revised Seed Regulations In Effect

ALLENTOWN – The Pennsylvania Department of Agriculture has revised its regulations on noxious weed seeds in seed wheat, the labeling of flower seed mixtures and the amount of inert matter allowed in Kentucky bluegrass seed.

Agriculture Secretary Richard E. Grubb said the changes will benefit farmers and millers in the production of flour and free the seed industry from unrealistic labeling requirements.

The amendments, which became effective November 8, will:

1. Prohibit all wild onion or wild garlic bulbets in seed wheat. Previously, up to five bulbets per pound were permitted.

2. Remove the requirement that packets of mixed flower seeds of three grams or less be labeled with the percentage of each kind of seed.

3. Permit 15 percent inert matter in certain Kentucky bluegrass seed, replacing the present ten percent limit.

The ban on garlic bulbets was necessary, according to Richard Deppen, chief of the Bureau of Plant Industry's seed division because millers penalize wheat growers for their presence. The bulbets adhere to the milling machinery and could create an objectionable taste in the flour if not removed.

Deppen said the previous requirement on labeling mixed flower seeds has been impractical because the seeds vary in size according to kind and tend to migrate together in the packaging machinery, making it difficult to allot them by percentage in small packets. While seed companies will continue to list percentages on larger packets, they will be required to specify only the kinds on those of three grams or less.

The former limit of 10 percent inert matter allowed in Kentucky bluegrass seed was a costly exception for the seed industry because most states enforce a 15 percent limit. Pennsylvania's adherence to the new standard will protect interstate uniformity while continuing to assure quality seed for consumers, Deppen said.

The revised regulations also give the Agriculture Department its first increase in seed laboratory analysis fees since 1980. The new rate schedule, which reflects increased costs, is available through County Extension Service offices or by contacting the Bureau of Plant Industry, Pennsylvania Department of Agriculture, 2301 North Cameron Street, Harrisburg, PA 17110-9408.

Swine Artificial Insemination Course Offered

UNIVERSITY PARK – A "Hands-On" Swine Artificial Short Course will offered March 2-3, at Penn State University. The course is geared toward producers, extension agents, and vo-ag teachers and other ag professionals with limited experience in artificial insemination techniques.

Participants will have the opportunity to practice A.I. on sows. Classroom instruction will also be a major part of the course, covering semen handling techniques, reproductive anatomy and strategies for incorporating A.I. into a swine operation. Cost of the course is $40 per adult, $20 per additional family member and $20 per student.

Programs and registration forms can be obtained from: Swine Artificial Insemination Short Course, 306 Ag Administration Building, University Park, PA 16802. For additional information on course content, contact Kenneth Kephart at (814)-863-3671. Class size is limited, therefore early registration is encouraged.

Rotary Hoe Info Available

COLCHESTER, Ill. – Yetter Mfg. Co. has just published a 4-page, 4-color brochure with details and specifications on the firm's rotary hoes. Models are available in widths from 12 foot to 34 foot in the 3400 rigid toolbar series and from 21 foot to 41 foot in the 3500 folding toolbar series. Hoes will accommodate row spaces up to 40 inches without adjustment and wheels have been designed to permit hoeing between plants and rows without injury to the plants. Copies of the new brochure are available at all Yetter dealers or by writing to Yetter Mfg. Co., Colchester, IL 62326-0358.

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MOLINE, Ill. — They came on horseback through the Cumberland Gap, on foot over Braddock's Road, on barges across the Erie Canal, on rafts down the Ohio . . . men and women with hope in their hearts, and the West in their eyes . . . a West, in the early nineteenth century, that began just beyond the Appalachians.

They'd left New England or the Middle Atlantic states or the South for a thousand private reasons, drawn irresistably by the magnet of opportunity . . . the chance for a new start on cheap, abundant, virgin land . . . the chance to satisfy an adventurous spirit . . . the chance, perhaps, simply to get away from it all.

"Many are inclined to remove to new places," a Connecticut farmer wrote, "that they may have some room, thinking we live too thick."

Some settled in the Northwest Territory around the Great Lakes. Others moved on to the Mississippi Valley. In many places they found a sea of prairie grass, as tall near the river bottoms, one observer said, "as a rider on horseback."

The grass, the hundreds of wildflowers mixed with it, and the dark earth beneath offered vivid evidence of the land's agricultural promise. But first it had to be tamed for crops, a job for teams of oxen, heaving and hauling heavy prairie-breaking plows through alluvial soil, cutting matted, cord-like plant roots, some as thick as a man's finger.

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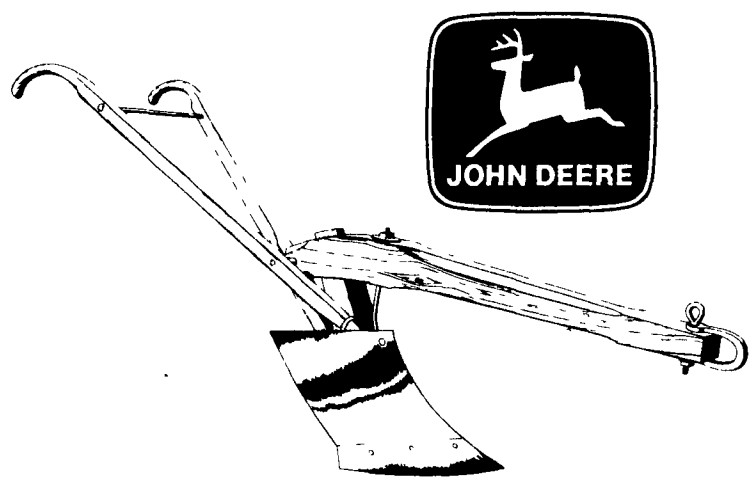


A Vermont blacksmith named John Deere revolutionized farming in 1837 by building the first wrought-iron moldboard plow with a steel share. Experts believe the first plow looked much like the one pictured.

frustrating problem developed later, when farmers began cultivating. If it contained any moisture, the soil clung like putty to the rough-textured wooden and cast-iron moldboards, or earth-turning plates, of the settlers' plows. Farmers carried sticks to unclog moldboards, a task which had to be repeated so often that plowing efficiency was impaired.

It was in the resolution of this problem that John Deere, a Vermont blacksmith who had emigrated to the Illinois prairie, left his mark on American agriculture. In 1837, he developed a plow with a cutting edge or share, of steel, fused to a polished wrought-iron moldboard. Because of its smooth surface texture, kept polished by the soil it turned, and its curved shape, earth wouldn't adhere to this implement.

Thus, pioneer farmers now could plow without having to stop frequently to clean moldboards. Their productivity increased.

John Deere's better idea seems remarkably simple today, in an age when complex technological advance is a commonplace. But for its time and place it was a significant advance, and contributed importantly to opening the Midwest to agricultural development.

Corn, Soybean Varieties Released By Asgrow

KALAMAZOO, Mich. — The Asgrow Seed Company introduces four new corn hybrids and five new soybean varieties for the 1987 growing season to complement its extensive selection of field crop seeds.

Corn hybrids **RX798 and RX860** have both exhibited high yield and test weight potential in the Central Corn Belt. The 114-day RX798 hybrid is characterized by medium to tall plants that produce mature ears on green stalks. RX860, a 116-day hybrid, produces medium-long ears that are held close to the stalk by very short shanks. **RX956W** is a Central Corn Belt single-cross, white-kernel processor hybrid of approximately 118-day maturity rating.

The other new corn hybrid, **RX989**, is a southern U.S. hybrid of 126-day maturity. RX989 has excellent processing qualities with yields and standability often testing superior to that of Asgrow/O's Gold RX404 the market-leading yellow processor hybrid.

Soybean introductions run from Group 0 to late Group VII maturities.

New soybean variety A0949 is a late Group 0 soybean combining good emergence with genetic resistance to races 1-3, 6-11, 13, 15, 17, 21-24 of Phytophthora root rot. **A3205** is an early Group III maturity and **A3733** a mid-Group III maturity. They hold excellent emergence records and high levels of field tolerance to Phytophthora root rot. Seed supply is limited for both of these varieties for 1987 planting.

Mid-Group VI variety **A6785**, does well on heavy clay soils and is resistant to races 1-3, 6-11, 13, 15, 17, 21, 23, and 24 of Phytophthora root rot. **A7986**, a late Group VII variety, is tolerant to stem canker and resistant to Phytophthora root rot races 1-4 and 9-14. Both A6785 and A7986 are moderately resistant to common root knot nematode.

In addition to corn and soybean seeds, Asgrow markets a broad selection of sorghum, alfalfa and forage mix seeds.

Farm Product Buyers Protected By 'Clear Title' Legislation

HARRISBURG — The Pennsylvania Departments of Agriculture and State recently reminded lenders and buyers that farm product purchases are now governed by provisions of the federal Food Security Act of 1985.

"Those who buy farm products in Pennsylvania have clear title unless notified in advance by a lien holder of a lien on the products," said Agriculture Secretary Richard E. Grubb.

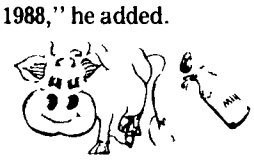
Effective Dec. 24, the new provisions affect farm product transactions covered under the Uniform Commercial Code, Grubb said.

Under the Act, pre-notification of buyers by lenders with mortgages on farm products is required to protect secured interests unless a Central File system has been enacted at the state level.

"The Department of State's Corporation Bureau is continuing to plan for the establishment of a centralized filing system for secured lending transactions involving farm products," according to Secretary of State Robert E. Gleason Jr.

Under a Central File system, lenders file statements showing evidence of mortgages. Farm product buyers then would have to register with the system to assure that they receive notice of liens.

"We're confident such a program at the state level will respond to and remedy a problem within the farm sector," Gleason said. "We have proposed a Central File system in the 1987-88 Commonwealth budget, and pending budget approval, a tentative implementation date has been set for July 1988," he added.



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BUSINESS NEWS...

Stanford Offers New Corn Hybrids

DENVER, Pa. — Stanford Seed Company has introduced 6 new Hytest hybrid corns to their Hytest lineup. Each Hybrid has shown exceptional capability to outperform existing hybrids currently in the marketplace. After years of testing and evaluation by Stanford agronomists, the following hybrids made "the final cut".

HT212 - A 92-day dual purpose hybrid, tall plant with long ears that drys down extremely fast.

HT276 - A 97-day hybrid exhibits excellent plant health resulting in strong stalks, high test weight, top yields, even at higher populations.

HT454 - This 102-day hybrid really responds to intensive management, resulting in an attractive plant with erect leaves, a producer of many bushels of corn, and a very high test weight.

HT588 - Although this 111-day corn performs extremely well under stress, it really shines with good fertility at medium-high populations.

HT712 - Excellent emergence, early spring vigor combine to give this 117-day hybrid an advantage over similar hybrids resulting in large blocky ears that dry rapidly.

HT797 - This tall 122-day corn exhibits excellent MDMV (virus) resistance, without sacrificing high yield potential.

For additional information, contact Stanford Seed in Denver, Pa. (215) 267-3805.

Book On Grazing Management Available

COLCHESTER, Vt. — ***Greener Pastures On Your Side Of The Fence*** is a 232-page book full of practical information on using Voisin grazing management. It clearly shows a way for livestock farmers to increase the profitability of their farms.

Feeding costs account for a large part of the total expense of livestock production. Cutting feeding costs is the most logical and feasible way of increasing net farm income.

Permanent pastures ion the United States are a neglected resource, producing far below their potential the way they usually are managed. American farmers generally consider pastures to be mere holding or exercise areas for livestock. They use a practice of year-round feeding of stored forage to livestock in confinement. This requires large capital investment in facilities and equipment and large amounts of purchased supplements.

In contrast, New Zealand's highly productive and profitable agriculture depends almost entirely on permanent pastures grazed according to the system defined by Andre Voisin. Farmers using Voisin grazing management obtain high yields of excellent quality forage over long periods, with small capital investment in facilities and equipment increased net income is the overall result

In ***Greener Pastures*** Bill Murphy explains how to set up and use the proven Voisin grazing management system He provides many helpful suggestions drawn from his five-year experience of using Voisin management, and from that of hundreds of other farmers now using the system in the Northeast.

The 6x9 softcover edition (ISBN 0-9617807-0-3) is available from Arriba Publishing, 213b Middle Road, Colchester, VT 05446 for $14.95 postpaid.

New Grain Drill From Case IH

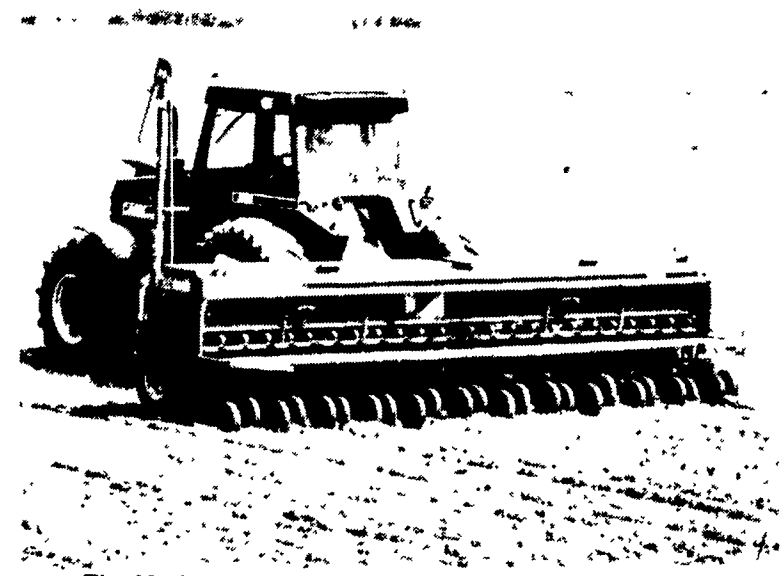
RACINE, Wisc. — The new Case IH Model 5200 mounted grain drill is designed to save farmers valuable time and offer unexcelled seeding accuracy, according to Joe Neville, Case IH product supervisor, planting and seeding.

This new grain drill is the first mounted drill for Case IH. "Mounted drills provide better maneuverability than trailing drills especially in smaller fields and on headlands," says Neville. "They also have wider widths."

Case IH all-metal feed cups are featured on the Model 5200. The feed cups offer top performance regardless of the size and type of seed. A three-position bottom with a simple lever adjustment on each cup allows smooth sowing of all sizes of wheat, soybean and kidney bean seeds. Quick-change high and low rate drive sprockets speed sowing rate changes, for greater convenience to the operator.

According to Neville, a distinct time-saving advantage of the new Model 5200 is a hand crank adjustment used to regulate down pressure on opener units. This provides proper penetration in a wide variety of soil conditions.

Front delivery seed tubes, which are featured on the Model 5200, are more accurate than rear delivery systems. Rear systems will often tumble loose soil and seed together in the furrow, while the front delivery tubes sow seed [illegible]



The Model 5200 is Case IH's first mounted grain drill.

at full furrow depth.

Furrow openers can be attached and detached quickly. This eliminates wear and tear on idle openers for the operator who chooses to row-crop. Magnetic covers can be placed over the feed cups for convenient conversion from solid seeding to row-crop seeding

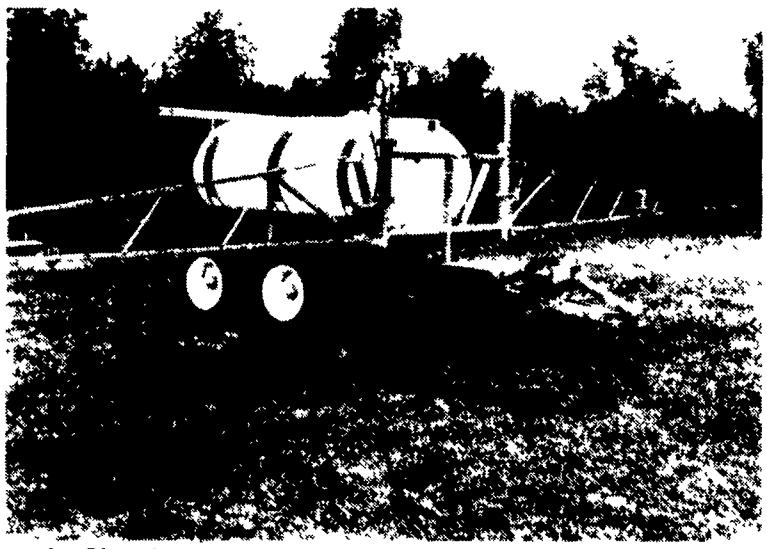
Depth press wheels on the Model 5200 accurately control seeding depth. Press wheel tires are designed to prevent moist soil build-up. A standing center rib forms a cracking slit above the seed, while soil is surrounded on both sides of the seed This prompts seed germination and emergence.

New hydraulic-fold markers are available as an option on the 20-foot Model 5200 drill With a choice of hydraulic or electric selectors, these hydraulic breakaway-type markers prevent the waste of seed and time due to overlaps and skips Optional non-folding markers are available on the 15-foot version

Ag-Chem Sprayer Offers Front, Rear Boom Mounting

MINNEAPOLIS, Minn. – Ag-Chem Equipment Co., Inc. introduces a newly engineered 500 gallon pull-type sprayer. The 502 has many new features including a bolt-together frame that pulls directly from the axle, and a loading platform that provides easy access to fillwell and top of tank as well as space for accessories.

A newly developed 42½-inch torsion boom absorbs shock and increases boom stability in rough field conditions. The boom can be mounted in front of the unit to increase visibility, or in the traditional rear position. The elliptical tank features a low center of gravity and excellent visibility. It has a full length sparger for product agitation and a deep 6-by-12-inch sump for complete tank drainage. The unit can be fitted with optional tandem oscillating axles which provide proper weight distribution for added maneuverability and stability. This axle is row crop adjustable from 60 to 80 inches.



Ag-Chem's 502 pull-type sprayer features bolt-together frame and elliptical tank.

More information is available from AG-CHEM EQUIPMENT CO., INC., Industrial Park Drive, Jackson, Minnesota 56143, phone 507/847-2690.

Don't Neglect That Grain Drill

RACINE, Wisc. – Since grain drills are built for minimal maintenance, some producers skip drill checkups entirely. But good maintenance can increase the life and efficiency of your drill, according to Joe Neville, Case IH product supervisor, planting and seeding.

"For many years, drills sat outside the machine shed while the storage space was used for other, more expensive machines," Neville says. "But farmers are now paying more attention to drill maintenance and seeding efficiency."

Neville suggests eight preseason maintenance steps:

1) **Thoroughly clean the unit.** Everything from hopper boxes to drive chains should be scrubbed free of dirt, trash and leftover fertilizer. Fertilizer can be especially harmful to the metering mechanism in the hopper boxes.

2) **Lubricate all main points,** and inspect and clean all drive chains. Rusted chains will not drive smoothly. They will, in turn, cause a jerking action within the seed metering system, which leads to uneven seeding.

3) When lubricating the unit, **loosen the wing nut** on the feeder shaft adjusting lever, lubricate the pivot point, and move the shaft its full spectrum. Since this lever controls the amount of seed dropped, it's very important that it works smoothly.

4) **Check the arbor bolt,** which holds the press wheels in place, for tightness. A slightly loose bolt will allow the wheels to wobble and may wear out the bearing. An extremely loose bolt will allow the wheel to run off the seed row, causing poor seed-to-soil contact.

5) Closely **inspect the seed openers,** whether single-disk, double-disk or hoe type, for wear and replace if necessary. Replace worn bearings, too.

6) **Inspect the rubber tubes** which carry seed from the hoppers to the soil for cuts, mouse nests or other obstructions. They should be free of any kinks that might prevent accurate seed droppage.

7) Identify the correct seed size based on the number of seeds per pound, and then **calibrate the drill unit** accordingly. Consult the operator's manual for instructions.

8) Carefully **adjust the drill unit's depth** according to your individual needs. On end-wheel units, for example, ensure uniform height across the unit by inflating both tires to the same pressure.

"Ideally," Neville concludes, "a grain drill checkup should start with a thorough post-season cleaning of the unit before it is stored. If there's no room in the machine shed, producers should at least clean and lubricate the drill then cover it with a heavy tarp."

Proper grain drill maintenance Neville says, will go a long way toward maximizing seeding accuracy, efficiency and yields.

Insecticide Labeled

PHILADELPHIA – Growers who raise cantaloupes and pumpkins stand to benefit from the recent labeling of Pounce 3.2 EC insecticide for use on those crops.

"Pounce is a broad-spectrum insecticide that has proven itself on a wide variety of fruit, nut, vegetable, field and grain crops," says Susan Wendler, Pounce product manager for FMC Corporation, manufacturer of the chemical. "Its new availability for use on cantaloupes and pumpkins is good news for farmers who raise them and must fight some tough insect pests."

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Advance Payments Offered For '87 Wheat, Feed Grain Programs

HARRISBURG — To provide producers with additional cash flow for spring plantings, the Dauphin County Agricultural and Stabilization Service has announced that advance payments are being offered during the signup for the 1987 wheat and feed grain acreage reduction programs. Advance payments represent 40 percent of the projected deficiency payments for wheat and feed grains. Feed grain producers also may request 50 percent of their land diversion payments.

Deficiency payments are made to farm program participants when the average market price falls below the established target price for a crop. Target prices per bushel for 1987 are $3.03 for corn, $2.88 for sorghum, $2.60 for barley, $1.60 for oats, and $4.38 for wheat.

The projected deficiency payment rates per bushel are $2.10 for wheat, $1.21 for corn, $1.14 for sorghum, $1.11 for barley, and 55 cents for oats.

The advance deficiency payments equal one-half the projected deficiency payment rate, times the farm program yield, times the indicated acreage to be planted, not to exceed the permitted acreage of the crop.

In addition to deficiency payments, feed grain farmers who sign up will be eligible for land diversion payments at a rate of $2 per bushel for corn, $1.90 for sorghum, $1.60 for barley and $.80 for oats One-half of the advance deficiency and diversion payments will be issued in cash and the remainder will be paid in generic commodity certificates.

A farmer who accepts an advance payment, but who later does not comply with program provisions, must refund the amount of the advance payment with interest plus liquidated damages.

The 1987 commodity programs call for a 27.5 percent reduction in wheat acres and 20 percent for feed grains, with an optional 15 percent paid diversion.

Applications for the 1987 programs may be filed at the Dauphin County ASCS Office, 75 S Houcks Rd., Suite 100, Harrisburg, PA 17109.

GIGANTIC SELECTION
In Lancaster Farming's CLASSIFIEDS

Kubota Introduces Narrow Tractor

COMPTON, Calif. — The Kubota Tractor Corporation has recently extended its M30 Series into new markets with the narrow version of the M6030 DT-N tractor. This narrow tractor with an overall width of 63 inches, a hood height of 54.3 inches and a minimum ground clearance of 15.4 inches, is designed specifically for orchard and vineyard applications.

The M6030 DT-N's three cylinder, water-cooled diesel engine provides 57 PTO horsepower and is equipped with 16 forward speeds. Additionally, its automatically engaged no-spin front differential and bevel gear allow for greater pulling power and smoother turns.

For operator comfort and ease of operation, Kubota offers the standard features of power steering, an Easy Checker instrument panel and a key for ignition and engine shut off.

Kubota Tractor Corporation markets a complete line of tractors from 10 to 85 PTO horsepower, along with a variety of lawn and garden implements, compact excavators and outdoor power products. For more information about these tractors or other Kubota products, contact: The Kubota Tractor Corporation, 550 West Artesia Boulevard, Compton, California, 90220.

Kubota's new narrow version of the M6030 DT-N provides 57 PTO h.p. and is well suited for orchards and vineyards.

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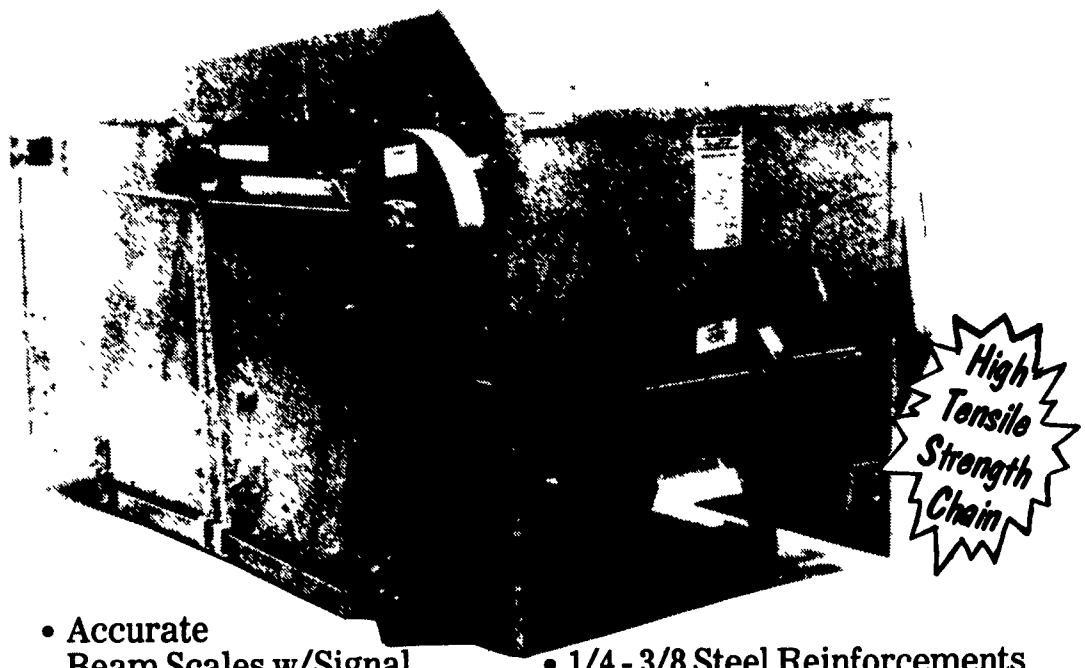

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Forages at 20 lbs per Cu Ft	1500#	2100#	2700#	3000#	3800#	4600#	6000#
Width	49"	61"	61"	61"	73"	73"	85"
Height with Scales	65"	65"	65"	76"	76"	79"	79"
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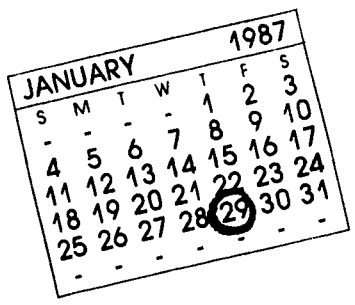

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JOHN DEERE

Brockett's Ag Advice

By John E. Brockett
Farm Management Agent
Lewistown Extension Office

My Final Column

In my final column as an area farm management agent, I will be discussing a number of items. Most of them will relate to questions I have received over the past few months.

Changes I have seen over the past 30 years: I have been asked this question by several news reporters. The question always stumps me because the number of changes in the agricultural field have been so many that I would have trouble recounting them. Some of the major changes are ones I discussed in my previous column. I guess the biggest change that I have seen is the gradual shift in the work load of farming from mostly physical to about 50-50 physical and mental. The farm manager who can adapt to this change will have a good chance of being profitable in the future. The saddest change for me has been the reduction in number of farmers.

Advice I would have for young farmers: The advice I would give to young farmers today would not differ in context very much from the advice I was giving 20 years ago. It does differ in intensity. Today's young farmers must realize that they will not be permitted to make as many mistakes as those made a generation ago. Technological changes are coming at a much more rapid rate. Computers are a symbol of today. They do not cause everything to move faster, they are simply tools that are used to help society move at the quickening pace demanded by that same society. This faster pace makes mistakes more critical for managers in all types of businesses.

Running a business could be compared to some of those "video games" that people play. They come with varying degrees of expertise. The difference between the beginner and the expert is one of making decisions at a faster pace and with more variables. Three generations ago, farmers were in the pre-beginner group, the last generation was up the line away, and this generation is in the expert class. The mind or mental work (call it management if you will) will rule the farm economy of the future, not the back or physical work.

Decisions will have to be made faster and more precisely by today's managers. Be prepared to keep and use more detailed records or someone else will soon have your farm. The family farm is alive and well despite the doomsayers. However, it is in the midst of some tremendous turmoil as farmers adapt to the many changes in the farm business being wrought by the need for more involvement of mental work in the running of today's farms. Those who succeed in adapting will prosper.

Is the family farm doomed: Farm from it, as far as I'm concerned. I have explored this question from all aspects. I have looked at it subjectively and objectively. I have looked at the changes that have occurred in the past. My answer to those who feel it is doomed is "forget your dire forecasts, the family farm is here to stay." It will be changed as it has in the past. After all, how many farmers use horses as their power source today? How many dairymen milk cows by hand or even carry the milk to the milk house? How many farmers cultivate corn to control weeds? How many farm homes lack modern facilities, or electricity, or a telephone, or a television set? So is the farm family doomed to extinction? No way! The family farm is a viable and changing segment of our society and will continue to be so, far into the future.

What about individual farmers: Unfortunately that is a different story. There will be a continuing exodus of people from farming. Some of this will be good because some of those who leave farming will find a life style more suited to their needs. Some of it will be sad, because there will be some who cannot adapt to a life off the farm. Also sad will be the fact that as each farmer leaves the farm, our society has lost a source of potential attributes to the world in the farm-reared children, who early in life learn some valuable lessons about work, responsibility, and living that are hard to teach off the farm. On the other hand those children may learn other lessons and skills that would be valuable to them in the world of the future.

What about selling farm assets and getting out of business: The new tax law has made it much more costly, taxwise, to do this. At this point, I would suggest to people considering the move to not make the change in 1987 if possible. The tax consequences of a sale in 1988 will be less than in 1987 for most farmers. For those who are concerned about bankruptcy or foreclosure or liquidation, do some careful tax planning. There have been some interesting changes in the tax laws on this subject in the past few years and there may be some additional changes coming up in the next year or two. I have prepared a short mimeo to help farmers, considering any of these courses of going out of business, to sort out the options. You can get it from the Mifflin County Extension Office.

I would like to forgive part of the installment sale note to my son: Generally, I suggest that the person **not** do this because it will mean that the parent will have taxable income equal to the portion given or forgiven. In a sense this is an exception to two other beneficial tax rules. The one concerning a tax-free gift and the one concerning loan forgiveness being non-taxable for farmers under certain circumstances.

What about transferring a farm to a child or children: There are a number of ways this can be done. Proper planning from a tax viewpoint can often save the seller taxes without adversely effecting the buyer. Proper planning can help develop a sale agenda where the buyer would have a reasonable chance to meet the ensuing liability payments. Finally, proper planning should provide the seller with lifetime security. One word of caution concerning property transfers: if the transfer includes the assumption of debt by the buyer, there will be taxable income from that assumption for the seller.

Why don't you develop an analysis program for farmers other than dairymen: I was unable to complete my total package of analysis programs in the time I allotted to it. I was able to finish an analysis program for sheep farmers that is now available. In addition, I have completed an analysis program for pork producers that will undergo testing this month. It should be available by late January.

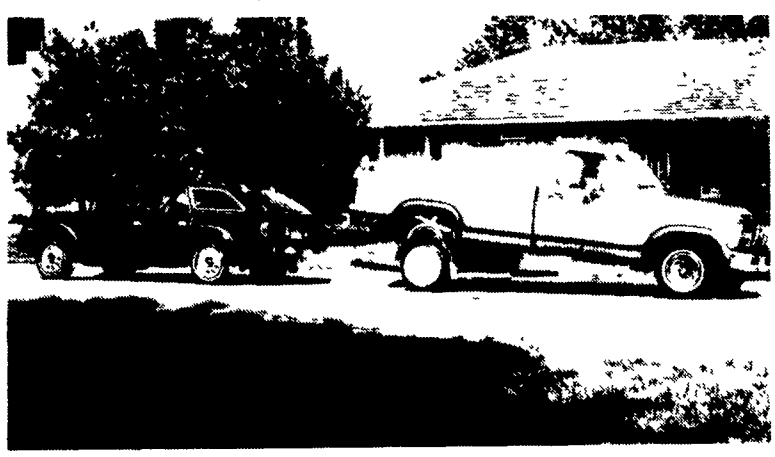
Giba-Geigy Offers Crop Management Handbook

GREENSBORO, NC – Methods that will minimize per-bushel production costs and maximize economical yields for corn and soybean growers are described in a new publication, "Partners In Management," available free from the Ciba-Geigy Corporation.

Even though the efficiency of American farmers is unsurpassed in the world, the handbook notes that many growers could increase their efficiency and profitability by learning how to better manage crop production inputs like seed, fertilizer and pesticides.

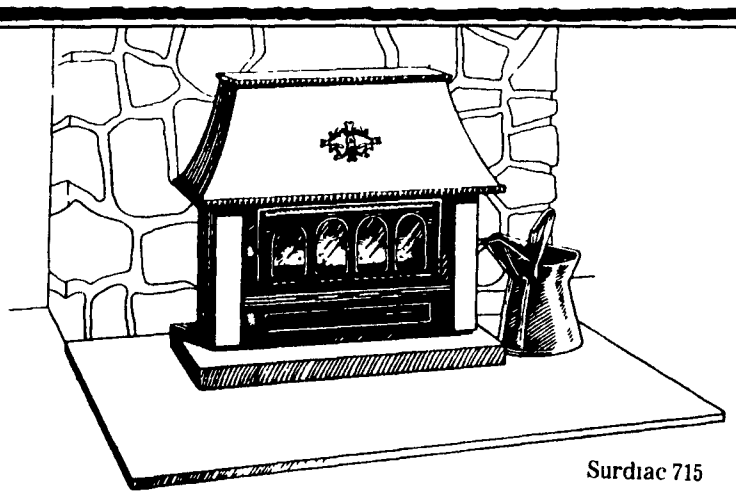
To receive a free copy of "Partners In Management," write to: The Ciba-Geigy Corporation, Agricultural Division, Communications Department, P.O. Box 18300, Greensboro, NC 27419.

Car Dolly Converts To Trailer



The Automatic KT-100 handles vehicles with up to 76½-inch tread width, features heavy-duty construction throughout for heavy-duty performance. Optional features include towed vehicle light bar, surge brakes, electric brakes, loading winch, spare tire with mount and cover and Kargo-Tote conversion which converts the dolly into a utility trailer.

For further details contact the manufacturer, Automatic Equipment Mfg. Co., Department NR, Pender, Nebraska 68047, 402-385-3054.



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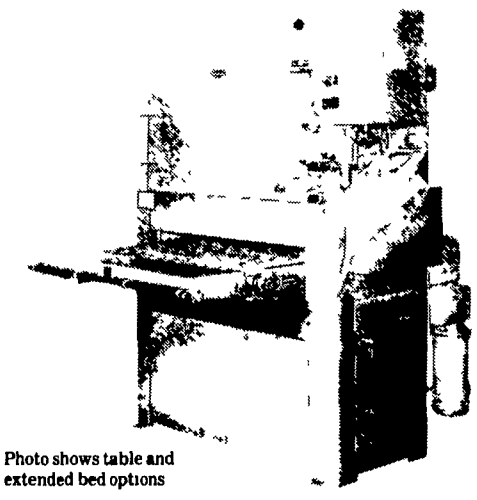

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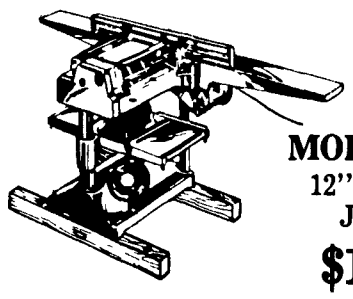
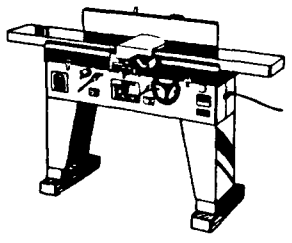
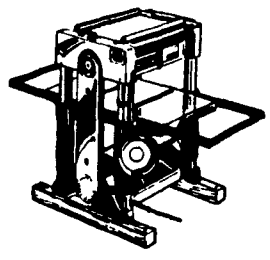


MODEL 2030
12" Planer - Jointer
$1,195

MODEL 2020
8" Longbed Jointer
List $1,700
$995





MODEL 2040
15 5/8" Planer
$1,195

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(717) 354-4478

The Bull-etin Board

COBA/SELECT SIRES To Hold Seminars

COLUMBUS, Ohio — **Dr. Wallace E. Erickson,** general manager and executive vice president of COBA/SELECT SIRES, INC announces the **1987 District Member Meetings - Dairy Management Seminars** to be held January 26-30, 1987. COBA sponsors the seminars to offer members and patrons the most up-to-date information on dairy management practices to aid the dairyman in developing a more profitable dairy operation.

The seminars are held throughout Ohio and Pennsylvania and are broken down by district area. COBA members will have the opportunity to vote for delegates and a director in their respective districts. All seminars begin at 10 a.m. and include a noon luncheon.

The two seminars scheduled for Pennsylvania will be held at Days Inn, Meadville, on Jan. 28, and at Days Inn, Butler, on Jan. 29.

Guest speaker for the Pennsylvania seminars will be Dr. Benny Bell, Extension dairyman with the University of Tennessee's Department of Animal Science.

For more information contact Lisa Keller, COBA/SELECT SIRES, INC., 614-878-5333.

21st Century Genetics Lists Outstanding Pa. Bulls

SHAWANO, Wisc. — 21H687 Spruce-Edge Majesty was raised to Excellent-92 to lead the good news at 21st Century Genetics when the Holstein bulls were recently classified.

The two additional points in Spruce's classification cement his position as an outstanding type bull in the breed. His current Predicted Difference for Type (PDT) is +2.00, one of five bulls at that elite level. Spruce, a graduate of the cooperative's sampling program, was acquired from R. Edwin Harnish, Christiana, Pa.

Spruce daughters are well-balanced dairy cows with excellent udders. In addition, owners of Spruce daughters report the cows are easy to work with and milk out well.

21H900 Maizefield Supercross, acquired from Mel and Rod Stofer, Leslie, Mich., was also raised to Excellent-92 from Excellent-90. Supercross has been combining solid, functional type with strong Calving Ease credentials.

The two bulls are among nine Excellents in 21st Century Genetics' current active line-up of 29 sires.

21H1095 Top-Flite Hammond-ET, acquired from the Hammond Syndicate, Eden, Wi. and Jamestown, N.Y., went up to Very Good-87. Another bull rising to Very Good-87 is one of the first Bell sons in the active line-up. 21H740 How-El-Acres Kirk Bellman, acquired from Howard Binder, Ft. Lupton, Colo.

21H628 Meadow-Hollow Jemini Diamond, acquired from Amos M. Stoltzfus, Morgantown, Pa., went up to Good Plus-80. A long-time member of the active line-up, 21H426 Mine-Road Conductor Leander, also went to GP-80. In the Red-and-White bulls, 21H707 LWS Carte Blanc-Red-Twin went up to Very Good-85.

Bull Enters Select Sires Program

7H3238 Everbe JS Rotate Sunny, a young sire bred by Eugene W. Hall of Muncy, Pennsylvania, has been chosen to enter the Select Sires' Program for Genetic Advancement (PGA) Sire Sampling system. Based on his outstanding pedigree, 7H3238 has been selected as one of 130 Holstein bulls from throughout the United States to enter the program in 1986.

7H3238 Everbe JS Rotate Sunny is sired by Rotate, the breed's top PD dollar sire over 90 percent repeatability. The dam, Everbe Merry King JS Span-Twin, is a very good (88) Jet Stream daughter with a January 1986 cow index of +843M +12F +$70. She has two outstanding records over 32,000M 1,100F with a top of 3-5 365d 32,114M 3.6% 1,145F. The grandam is also a very milky individual with records over 23,000M and 800F.

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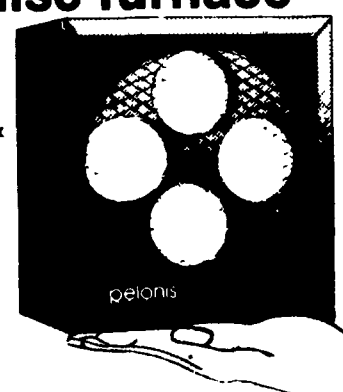

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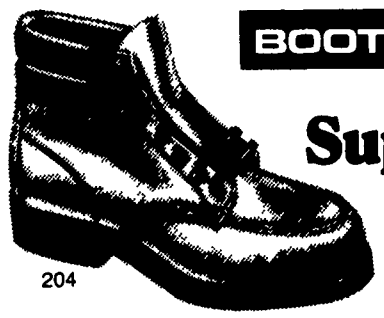

204

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Phone (215) 683-7686

MAIL ORDERS ACCEPTED

Centre Co. DHIA Report

dhia
Pennsylvania Dairy Herd Improvement Association

November 1986

Owner	No. Cows	% Days In Milk	Lbs Milk	Lbs Fat
Graham Bros Farm	103	88	23,284	879
Valley Wide Farm	84	88	22,459	828
Paul Hartle	45	89	22,464	811
Richard Trinca	60	86	21,011	783
Joseph Hartle Jr	71	88	21,202	777
Jay Houser	68	89	20,871	772
Fairbrook Farms	104	90	19,858	763
Donald R Bierly	75	90	20,398	754
Bruce E Ulmer	63	90	21,027	743
Stringers Sand Ridge	67	86	19,353	743
John Ishler	69	90	20,746	733
Carl R Gates	42	89	19,561	728
James E Rider	93	87	19,432	723
Penn State Herd 187	17	88	17,380	721
Franlo-Alken Farms	37	88	20,583	719
Lynn & Margaret Neer	105	84	19,371	716
Ned E Deitrich	73	90	20,578	716
Penn State Herd 185	123	85	18,912	713
Evan & Ricky Homan	58	88	20,283	709
Henry M Glick	45	86	18,362	707
Peters Farm	50	90	18,549	694
Melvin K Dutrow	37	87	20,025	689
Ra-El Holsteins	50	87	20,112	683
Steve & Diane Lansbery	43	87	20,008	682
Rodney D Reese	108	87	18,954	681
Daniel G Frank	76	86	18,032	674
Fred O Benner	120	90	18,252	673
Murmac Farms	45	82	19,327	672
L Thomas Musser	46	89	17,926	672
Paul-Douglas Vonada	58	88	18,360	669
Tussey View Farms Inc	125	88	18,003	669
Glenn & Robin Gorrell	59	88	19,372	668
Mingo Meadow Farms	69	84	18,928	668
Ralph F Wheland	53	86	18,289	668
Penn State Herd 184	15	87	14,755	667
George & Ron Zimmerman	36	89	17,983	665
Reesbrook Farms	116	85	17,624	660
Sheldon A Corl	102	88	18,183	655
Thomas E Ault	65	88	17,439	651

During the month there were 105 herds with 6,263 cows processed in the DHIA program, according to Alan P Kozak, county agent Production ranged from a high of 59 7 pounds of milk, testing 3 8 percent fat, to a low of 22 4 pounds of milk, testing 5 3 percent fat

In the owner sampler program there were 14 herds with 522 cows being processed The herds ranged from a high of 56 2 pounds of milk, testing 3 5 percent fat, to a low of 24 3 pounds of milk, testing 3 6 percent fat

The 10 high individual cow actual production records in DHIA produced on a two times a day milking in 305 days or less (unless otherwise indicated) were in the following herds

Fairbrook Farms	26,771	4 4	1185
Valley Wide Farm	25,566	4 5	1160
Tussey View Farms Inc	25,164	4 6	1160
Graham Bros Farm	30,830	3 7	1131
Rodney D Reese	28,286	3 8	1082
Graham Bros Farm	26,928	4 0	1070*
Jay Houser	24,135	4 4	1050
Fairbrook Farms	28,238	3 7	1034
Rodney D Reese	30,838	3 3	1031
Ned E Deitrich	30,287	3 4	1031

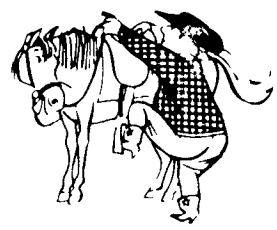
* 3 times a day milking

Columbia County DHIA
November, 1986

Name	Brd.	No. Cows	% Days In Milk	Milk Lbs.	Fat Lbs.
Shultz Bros	3	78 4	89 4	19,377	772
Frank L Jurbala	3	45 4	85 9	20,894	763
Richard Kriebel	B3	54 3	90 2	19,611	742
John W Turofski	G3	34 3	86 6	20,605	741
Richard Yule	3	46 0	87 2	20,749	731
Duane E Shuman	B3	29.5	89 4	19,095	717
Richard Kriebel	2	12 9	92 9	14,200	692
Hunter Crest Farm	3	38 1	85 4	19,770	679
Robert Sue Rumsey	B3	29 1	87 3	18,959	671
James L Kline	B3	24 4	89 4	19,618	664
William Bissinger	B3	35 8	83 6	18,821	661
Robert C Bronson	3	60 9	84 2	18,669	656
J Robert Book	B3	67 4	87 8	17,670	655
Richard Hemsarth	2	45 3	87 4	13,603	654
Circle C Farms	B3	32 6	86 0	17,288	653

The following cows completed lactations over 850 pounds fat during the November testing period

Lyons Den Dairy						
Nan	3	5-4	305	22,92[illegible]	4 1	946
Indigo	3	5-4	304	29,508	3 0	895
Pen Col Farms						
Dee	3	5-9	305	27,623	3 3	908
Abigale	3	5-8	305	23,708	3 6	857
#Med	3	3 5	305	26,172	3 7	974
Richard Kriebel						
Pauline	3	5-9	305	23,518	4 0	937
Frank L Jurbala						
Snoopy	3	4-3	305	29,418	3 6	1048
John W Turofski						
Cinder	3	4-11	305	22,133	4 1	900
William Bissinger						
Geralde	8	2 7	305	19,413	4 4	858
Robert-Sue Rumsey						
Cindy	3	4-2	305*	27,770	3 2	879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Lancaster Farming
P.O Box 366
Lititz, PA 17543
717-394-3047
or Lititz
717-626-1164

HOURS: Mon., Tues., 8 a.m. to 5 p.m. Wed., Thurs , & Fri. 7 a.m. to 5 p.m

The following categories are available for your classified advertising in Section C. Deadline-Thursday morning at 9 of each week's publication

1 - Farm Equipment
2 - Farm Equipment Wanted
3 - Silos and Unloaders
4 - Building and Supplies
5 - Grain Equipment
6 - Dairy Equipment

The following categories are available for your classified advertising, in Section B Deadline-Wednesday afternoon at 5 of each week's publication

7 - Livestock Equipment
8 - Cattle
9 - Horses & Mules
10 - Sheep & Goats
11 - Swine
12 - Artificial Breeding
13 - Hog Equipment & Supplies
14 - Poultry & Supplies
15 - Feed & Seed
16 - Fertilizer
17 - Plants
18 - Fruits & Vegetables
19 - Nursery
20 - Lawn & Garden
21 - Services Offered
22 - Custom Work
23 - Help Wanted
24 - Situations Wanted
25 - Business Opportunities
26 - Household
27 - Pets
28 - Lost
29 Found
30 - Computers
31 Notice
32 Miscellaneous
33 Recreational Vehicles
34 - Autos
35 Trucks and Trailers
36 Real Estate

CLASSIFIED AD ORDER BLANK

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MAIL TO:
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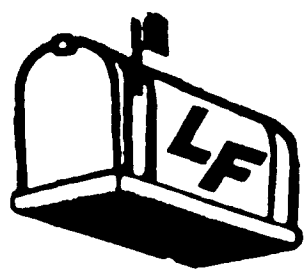
P.O. Box 366, Lititz, PA 17543

NOTE Please do not use this form for Mail Box Market Ads, see instructions in Section D with Mailbox Markets

DEADLINES:
SECTION B - WEDNESDAY AT 5:00 P.M.
SECTION C - THURSDAY AT 9:00 A.M. OF EACH WEEK'S PUBLICATION



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12	3.48	6.96	8.28
13	3.77	7.54	8.97
14	4.06	8.12	9.66
15	4.35	8.70	10.35
16	4.64	9.28	11.04
17	4.93	9.86	11.73
18	5.22	10.44	12.42
19	5.51	11.02	13.11
20	5.80	11.60	13.80

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36	37	38	39	40

1 FARM EQUIPMENT

Farmers & Dealers -- Your advertising pays for itself when you advertise your equipment in the farm equipment section 717-394-3047 or 717-626-1164.

FOR SALE: 2R custom built corn planters with JD max-emerge or Kinze plateless units. Three pt or pull type. No-till or conventional. Also Tifone air-blast sprayers. Low as $2,800. Pequea Planter, 561 White Horse Rd., Gap, PA 17527. Lanc. Co.

FOR SALE: Allis Chalmers 6070 tractor, like new, excellent condition, 800 hrs. 215-273-9884.

FOR SALE: JD 7000 conservation planter, 4RN, liquid fertilizer, monitor, new no-till coulters, very good condition. $3,900. 717-653-5244.

FOR SALE: Wide front for JD 4020. Tricycle front end WANTED. 215-445-6156.

Ford 5000 high platform, engine just overhauled, turbo charged and loaded w/weights. 315-536-7617.

For Sale: 13 Shank mounted IH #55 chisel plow, $1475. Snyder Co., 717-837-0724.

For Sale 1½ ton stacker, used very little. 814-355-2088

For Sale: 2 Electric motors, 3 hp single phase. 717-428-1045.

For Sale Hough 4WD loader, model HU, engine runs but knocks, has plantary drives. Will sell whole or part. Can Deliver. 607 847-8671

For Sale MF 1130 diesel, $3950. JD 336 Baler w/thrower, $3650 Reason for selling, bought later models. 717-534-1253.

1 FARM EQUIPMENT

JD 4020 diesel, WF, $5,000. 301-833-9091.

JD 4430 w/4 post roll guard, nice. $7,800. 717-532-7054.

JD 7100 planter converted to liquid 3R gel tomato planter; NH 1R 3 pt. transplanter; Ford rear wheel weights. 215-754-7772.

JD Model 400 rotary hoe, 15', good as new, $1,000; Brillion chisel plow, 10' pull type buster bar, $1,500; Valk 8' V snow plow, fits tractor or small dump truck, $1,000. Call Sheaffer eves. 301-778-0185.

John Deere 3020 dsl., WF, side console, dual outlets, syncro, excellent condition. $6,000/offer. 301-876-1956.

Knight 410 Spreader w/ triple beater & hyd. tailgate. Winpower 15-25 alternator w/PTO & trailer Cumberland Co., 717-776-6833

Lockwood 423 4 row potato planter; Super VI potato harvester, belted chain in excellent condition; Mark 76 potato harvester, belted chain in excellent condition. 302-734-9966, 8:30 a.m. to 4:30 p.m. 302-734-7645 after 6 p.m.

For Sale: Thomas skid steer loader, model 1200, hydrostatic drive, good condition, $2,850. 717-776-7725

For Sale: Vermeer 504 & 403 Super G round balers; 256 round bale buster; 275 9' discbine. 412-423-4076

Gehl #115 grinder mixer, 1000 RPM PTO, auger extension, good working condition. $1,400 or Best Offer. After 6PM 717-656-7994. Leola.

Gleaner E combine w/ grain head and corn head, good condition, $2,500. Monroe Co. 717-629-1820.

Heavy duty liquid and semi-liquid manure spreader, $2,000. 717-733-4516.

IH 1466 w/4 post roll guard in very nice condition. $6,500. 717-532-7054.

IH 1566 w/factory cab & air, sharp, $9,600. Somerset Co., 814-467-8839.

IH 1586 w/factory cab & air, duals, one owner, 1981 model, nice, $11,500. Somerset Co., 814-467-8839.

IH 2350 loader, $3,000/Offer. 301-833-9091.

IH 3688 tractor, 600 hrs., ex. cond., $30,000; IH 881 chopper, 2R corn snapper heads, ex. cond., $15,000. 201-875-8964.

IH 715 diesel, hydro, 13' 4-30", excellent, $6,750. Steven & Sam Stalter, "The Combine Boys". 219-862-2151

IH 986 w/cab, in very nice condition, $10,500. 717-532-7054.

IH hydro 70 gas, WFE w/2350 loader, $5,800. 301-833-9091.

IRRIGATION EQUIPMENT: Long Hard Hose Traveler model 1820; Hale PTO Pump model 50FB2-3R1000; Hale Trailer Mounted Pump model #50FR-C413 high pressure high volume; 2500' Tico 8"x30'; 4000' Tico 6"x30'. 717-532-9108.

Jamesway belt feeder, 60'; (1) 20', (1) 40' single chain Clay elevators, $3,000 complete Westmoreland. 412-238-6350

JD 1219 Haybine, reasonable. 301-838-9384 between 6pm and 8pm. Harford Co., MD.

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USED PARTS PRICED RIGHT
II Cat 933 42A sprocket, like new/lifetime seal type, $135. each. IH 125C/E backhoe attach. w/24" bucket, $2,800. Parts brochure available.
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Yard Location:
Quakertown, PA.
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Day or Night

Crawler loader, JD 350 diesel, no ROPS. One owner. Must see, $7,000. 301-833-9091.

Deere 6600 dsl. rotary screen, under 1600 hrs., big tires, super clean. Kept in. $9,950. "The Combine Man", 814-635-3689.

DIESEL ENGINES: 85HP-371 Detroit dsl. power unit, good condition; 120HP-471 Detroit dsl. engine, good condition; 140HP-471N Detroit dsl. power unit completely rebuilt; 32HP Murphy air cooled dsl., new. 353, 453, 671N, 8V71N, 8V92TA engines available. Diesel Engine Service, RD3, Box 651, Ephrata, PA 17522. 717-733-3890.

Equipment trailer, 7½'x17', 2 axle, heavy construction, 12 ply tires, 4' sides, good shape, $2,500. Cumb. Co 717-766-4966

JD 1240 4RN plateless corn planter, $1,750. 76 JD 440 Liquifier snowmobile, $825. Both in good condition. 717-665-7434.

JD 14' disc, $1,000.; Tandem axle lime truck, can haul up to 15 ton, $6,000.; (2) 1855 Olivers, $5,700., 1 w/cab. All ready to go. My price or Best Offer. 412-445-3336 after 9 p.m.

JD 16" 4 btm. plow, 3 pt., cover boards & mold board extentions, good condition, $550. or Reasonable Offer. 301-834-6138

JD 401 w/loader, gas, 2400 hrs., excellent condition, $6,000/Offer. 301-876-1956

5HP air compressor, A-1 condition, $350, 371 Detroit dsl.; TD6 engine, as is, $450. Smucker's Repair Shop, 94 Summit Hill Drive, Strasburg, PA 17579.

6600 Sidehill, hydro, in excellent condition, located in PA. $15,800. "The Combine Man". 814-635-3689

7700 Ford, dual power, load monitor, canopy, front, rear weights, 18-34 tires, good condition, $8,500. 717-626-5033.

AC 200 tractor, good condition, $4,000. 301-833-9091.

AC 600 series no till planter, dry fert., 4 row w/insect. & monitor, $2,200.; NI 701 power unit, 710 combine w/713 grain platform & 723 corn head, very good condition, $3,500. 301-877-1658

Also Better Built lagoon prop-pit agitator, excellent condition, $2,000 negotialbe. 717-788-3510

Backhoe, Ford 4500, good condition, $5,800. 301-833-9091.

Backhoe, IH 260, very good condition, $6,000. 301-833-9091.

Better-Bilt 26' lagoon pump, 540 RPM, full hydraulic controls, good condition. 301-790-3698.

Better-Bilt 3600 gal. liquid manure spreader, good condition. Westminster, MD 301-398-2948.

Bobcat 16HP skid loader, rough, needs motor, $450; also NH 1537 skid loader, bucket and fork, $1,300. 215-683-7943.

Bobcat 632 skid loader w/wide bucket, very nice, $6,500. 717-532-7054.

Calumet 2250 gal. liquid manure spreader, fair condition, $1,500. 301-398-2948.

MF 410 diesel, kept in, emmaculate, 13' and corn head, $7,950. Larry Stalter, "The Combine Man." 814-635-3689

MF 50 tractor with industrial loader. Franklin County, 717-263-3453.

MF 750, 6-30" and grain head, very good, $12,750. Larry Stalter, "The Combine Man", 814-635-3689.

MF 760 Dsl., V8 hydro. Combine. AC cab w/ heater, 30.5Lx32 tires, 16' table w/pickup reel & auto. header heights control, Chopper & bin extension, v.g. condition, 301-272-2620 night.

Michigan Model 35, 4WD rubber tire loader w/cab in good condition, $9,500. 302-239-5043.

1,000 gal. Dari-Kool bulk tank, auto. washer, Freheater, 1 yr. old, $8,000. 201-875-8964.

13.6x28 Firestone 4 ply 23 degree all traction changeover. $200 each. 16.9x38 6 ply Kelly Powermark Plus, $250 each. 215-257-5898.

1976 Deere 7700 turbo, hydro, shedded, clean, $10,900. "The Combine Man", 814-635-3689.

1980 Steiger Bearcat III, PT225, System II PTO, w/new 30.5x32 radial tires, 2400 hours, $32,000. IH 4586, w/30.5x32 tires, 2750 hours, nice condition, $23,000. Call for details, Seneca Service Center, 315-568-9864.

1981 JD 4640, 520 hours, cab, air, AM-FM, quad range, triple outlets, duals, $25,500. 717-836-5927.

2050 Oliver diesel, good condition; Gleaner E combine for parts; Rhino II shank chisel plow; Long pull type disc. Call 301-658-6448

30' Zimmerman manure auger, portable hyd. drive, good condition, can be used for poultry, pig, or cow manure. 717-548-3116

3250 gal. Calumet liq. manure spreader, good condition. Stump Acres. 717-792-3216. York County.

403 Super G Vermeer round baler, like new, rolled 550 bales, late model, $6,200; IH hay rake; AC tractor 412-837-3209

410 Massey combine; 16x7 JD grain drill; 300 gallon sprayer 609-728-4966 after 5 p.m.

Calumet 8' liquid manure pump, hydraulic lift and tilt, new condition, used only once. Hagerstown, MD, 301-790-3698.

Pixall green bean harvester, Ford 4000 diesel, 8 spd., $3,000. 717-867-4896

Porterway tomato harvester, field ready. Priced to sell. AC 185 tractor. Talbot Co., MD. After 6PM, 301-822-1378.

Round bale electric hay saws, new, $312. COD.; New & many used Vermeer round balers; AC D19 tractor & haybines. 412-423-4076

SAVE 50% PTO Alternators 20KW, $1,550.; 40KW, $2,195.; Engine driven alternators 4KW, $595.; 5KW, $695.; Pressure Washers 800 PSI, $399.; 1200 PSI, $895. Call 1-800-231-8277. Dunham Co.

Small engine parts: Clinton, Tecumsch, Briggs & a few Lawn Boy. Will sell in bulk lot, Value $3,000., Selling for $2,175. or Best Offer. Also AC 5020 w/60" mower & cultivator, $7,700.; Hustler 251 commercial lawn mower, used 1 month, $5,995. 814-926-2176.

Super-C Farmall 1953 Tractor, set plows, disk, corn workers, mower. $1500/everything. 717-567-3889.

Tournapull model D elevating scraper, 11 yards, runs and operates, $6,000. Lancaster Co. 215-267-5992.

VERMEER ROUND BALERS: Special Year End Pricing on 1987 models with no payment due 'til next summer. Also available, used balers, disk mowers, tedders, rakes, and twin rakes. John McGill, western PA 412-352-3582.

WANTED: New 456 NH mower; 752 NI crusher; NH 1003 bale wagon. 717-295-3137 or 717-394-5573

Case 1530B skid steer loader w/solid rubber tires, good condition, $3,500. 201-359-5934 eves.

Case 850 track loader w/full cab, 65% undercarriage, good condition, $14,250. 302-239-5043.

Case 970 WFE, cab, air, low hrs., $6,800. 301-833-9091.

Chisholm Ryder multi-D bean harvester, 1983 Model rebuilt 1986, not used 1986 season, $35,000 or best offer. George Wilson, 690 Iris Rd., Casselberry, FL 32707.

NH L35 skid steer, good condition, $4,200. 301-833-9091.

NI 212 triple beater spreader, exc., $1,500. 301-833-9091.

NI 325 corn picker, 2RN, 327 husking unit, used 300 acres. 301-797-9001.

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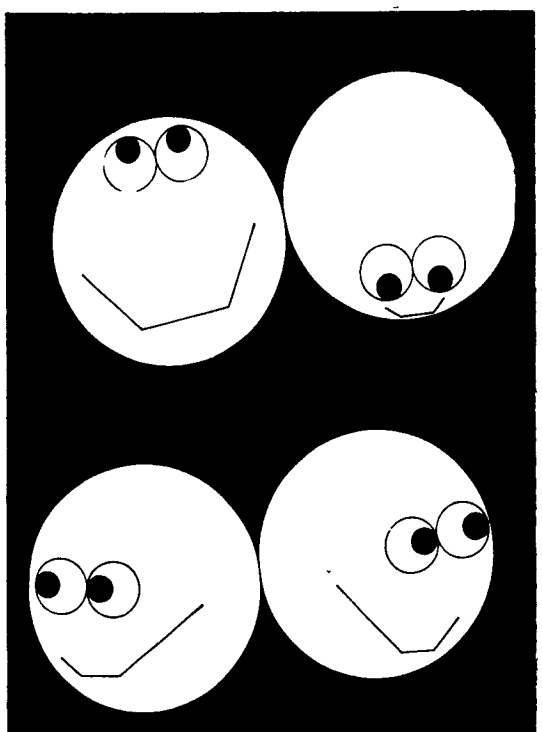

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JD 4320		$8,000
JD 4020, side console, power shift		$8,000
JD 4020, 68 model		$6,000
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JD 1530
JD 48 Loader w/Buckets

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MF-20 Ind Tractor & Loader, Shuttle Shift $5,500

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- DX 160 Radials, Cab Air Heat
- MF Ind Tractor & Loader, Shuttle Shift $5 900
- IH 656 Dsl Cab 15 5x38 tires
- MF 65 Tractor Mechanics Special
- NH 850 round baler excellent shape
- JD 1209 mower conditioner stub guards $3 500
- Deutz Basic F2L 912 Rebuilt Exchange Engine w/warranty $1 620 Block & Crank Must Be Rebuildable

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- Ford 501 3 pt. Mower
- NH 469 Haybine
- NH 320 Baler w/Thrower
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- NH 25 Blower
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- JD 850, Turf Tires
- JD 850, 4WD
- JD 2750, 4WD
- JD 3150, 4WD
- JD 4050, 2WD

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- JD 4040 Power Shift
- JD 2840
- Farmall 400
- Farmall H
- Farmall Super A
- Ford 6000 w/Cab
- Ford 8000 w/Cab
- JD 1520 Row Crop, Gas

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- Used NH 851 Round Baler
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- 1982 4040, Powershift fact. cab & air, radials, 1200 hrs., 1 owner, very nice
- 1986 JD 2950, fact. SOLD air, 400 hrs., one owner
- JD 4430, quad, fact cab & air
- JD 4430 4 post roll guard, powershift, 1976 model
- (2) JD 4230 Quad range, fact cab & air, nice
- JD 4020 dsl., w/5[illegible] SOLD . on major overhaul, year round cab, dual hyd, diff-lock, WF, very nice
- JD 4010, gas, WF
- JD 2940, 1600 hrs., nice
- JD 2750 Fender tractor, like new
- JD 2640, very nice
- JD 3020 Dsl , side console, WF, syncro
- JD 1530 Dsl w/recent engine overhaul
- JD 950 Dsl w/loader
- JD 730 Dsl., 3 pt , dual hyd , elect start
- JD 720 Dsl., rebuilt engine & pony motor

- Case 2090 w/fact cab & air, powershift, 1983 model, very nice

- IH 5288, fact cab & air, fully equipped, 20-8-38 tires
- IH 5088, 700 hrs., Western Interior, very nice
- IH 5088 1200 hrs, Western interior, duals & weights, 3 outlets w/lift-assist, 1982 model
- IH 1486, 1981 model, 3 outlets, Western int., dual PTO, all of the late features, very nice
- IH 1486, fact. cab & air, red interior, 20.8x38 radials, SOLD TO & 3 outlets
- IH 1086, fact. cab & air, new TA, diff-lock, red seat, 79 model.
- IH 1086 fact. cab, air, fully equipped
- IH 986, 1981 model, fact. cab & air, all the late features, low hrs., nice.
- IH 986 Fact. Cab & Air 38" Rubber
- IH 986, fact. cab & SOLD model, 1000 hrs.
- IH 886, 1980 Model, Fact. Cab & Air
- IH 886 Cab & Air, Fully Equipped, Sharp Low Hr. Tractor
- IH 1066, 75 model, red cab, air, radial tires, very nice
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- IH 1066 w/100 hrs on Major Overhaul, sharp
- (2) IH 966 Fender tract 3 pt, WF, one very nice
- IH 1456, 20,8x38, dual PTO & hyd , nice
- IH 1206 w/dual hyds. & PTO's
- IH 856 Dsl WF, fender tract
- IH 856 Dsl., 3 pt., WF, year round cab w/air.
- IH 826 Dsl., 3 pt., nice
- IH 806 Diesel, 3 pt WF
- IH 766, WF, 3 pt. with cab
- IH 766, WF, 3 pt fender tractor
- IH 756 dsl. w/cab & 3 pt WF
- IH 756 Dsl 3 pt WF, very nice
- IH 686 WF, 3 pt , 1 owner, low hrs
- IH 784 w/TA & late shift pattern, 1983 model, 790 hrs
- IH 584, 1980 model w/2250 quick tach loader, 1050 hrs
- IH 584, 1980 model w/Westendorf quick attach loader
- IH 656 Dsl , f SOLD 3 pt., NF
- IH 656 gas, hydro WF, 3 pt., sharp
- Farmall 450 gas w/fast hitch, 375 hrs., on complete engine overhaul, very nice
- Farmall H, live hyd., nice.

- Ford 5000 Dsl., w/cab & air, late model, low hrs., very nice
- AC 180 Gas, WF
- MF 175 Dsl. w/multi-power

HARVESTING EQUIPMENT

- IH 715, Cab & Air, Gas, Hydro, 800 Series, Throat, w/810 grain head & IH 843 corn head, very nice unit
- K Gleaner w/3RN & 10' grain head, nice
- NI 801 fact. cab & air, rear wheel assist
- (2) NI 709, cab, air, hydro, sharp
- Late NI 702 w/737 husking bed, choice of heads
- NI 701 Inline 6 cyl., gas, variable speed, cab
- NI 710 Combine w/711 Grain Head
- NI 325, 2RN, 12 roll bed, nice
- NI 325 2RN, 8 roll husking bed
- NI 323 Picker, good
- NI 716S Grain Head
- NI 767 Super Chopper, nice
- NI 740 & 741 Quick Tach Throats
- NI 768 W&N, 763 Chopper head.
- NI 3 & 4RN Hds.
- NI 2, 3, & 4RW hds
- NI 769 Flail-mate for Uni Chopper
- MF 44, low profile, 4RW
- MF 13 grain head
- IH 810 13' grain head
- IH 843 4RN corn head

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White model 425 chisel 10-tooth, heavy duty, high clearance w/Buster bar, 1 yr. old, 100 acres total

- IH 720, 4x18 Togle trip
- IH 710, 4x18" Auto Reset
- IH 700 4x16" auto reset
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- 3 pt 10 tooth chisel, high clearance
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- JD RWA Disc, 12'
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1983 MF 860 Hydro V8 motor, fully eq., low hrs., looks like new, w/rear whl. drive w/1163 C.H. & 15' flex U2, reel, like new.

M.F. (82) 850 4 WD Hydro w/16' Flex + 1163 C.H. Just out of field working.

M.F. 1980 750 Gray Cab, Hydro, fully eq., 700 hrs.

JD 6620 Side Hill w/700 hrs., looks like new; JD 4420, low hrs., very nice; 1976 JD 7700, real nice.

JD 3300 Real nice w/2 heads.

JD 8820 fully eq. w/Turbo Hydro w/Reverse feeder house and chopper, very nice.

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JD 6620 S.H., 800 Hrs., real nice, just out of field working. For $39,500; JD 6620 LL, 900 hrs., 1 owner, nice; (75) 6600 D. Rotary Screen good; 1977 JD 4400 D., C.A. w/23x26 tires.

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55 Sq. B. w/Cab - Good; 55 C.S. sq. back w/cab; (76) 915 Dsl., C.A. Turbo Hydro; IH 715 Gas w/Cab & 810 grain for $5,500; 205 w/Cab & 10' G.H.; Gleaner N6 w/R.W.D. & 2 Heads.

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JD 6620 and 7720 w/low hrs. & both w/4WD. Available This Week.

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Just Traded: JD 643 & 444 heads (SOLD); JD 444, low profile, real nice.

I.H. 863, 844, 843, 833, 744, 227.

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GRAIN HEADS: J.D. Used 12'-15' Incl. 213 & 215 & (2) JD 216 Flex; JD 213 Rigid.

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N.I. 713 Flex Or Rigid.

Tractors & Equip. Just Traded:

AC 7010 C.A.P.S., like new; IH 4568, 4WD; Case 4890, 4WD.

JD 4040 C.A., Q.R., very nice; JD 3020 w/NI 319, 12 roll mounted picker, local trade; Case 1594, P. Shift, low hrs., like new; Farmall 450 gas, PS, WF; F450 Gas w/F.H. & Loaders; F706 D., WFE, 3 pt.; MF 1135 CA, Duals; IH 205 Combine w/Cab & 2 Heads; JD 230, 21' fold disk, NI 325 w/12 Roll Bed; Taylorway 16' Rock Flex Wing Disk; JD 8300 Drill, 21x7 DD; Case 7' 3 pt. chisel plow w/gauge wheels; JD 1710, 10½' mulch tiller; JD 58 loader, excellent.

Late Model Brillion 10' transport seeder; Knowles 16' wing trans. harrow, used 4 acres; IH 241 Round Baler; IH 1150 Grinder Mixer; Badger Liq. Tank, like new; MF 124 Baler w/Thrower; NH 1495 Gas Haybine w/half cab; Arps 3 pt. snow blower; Howard 12' rotovator.

Local Trade: Used JD 4450 C.A. w/490 hrs., like new; (77) Case 970 C.A.P.S. original.

Used JD 4240 C.A., Q.R., 1400 hrs.; Local owner, looks like new.

J.D. (New) 4450 C.A.P.S. w/FWD, $44,200; New JD 2950 w/R.G.; 4640 C.A.P.S., Duals - 800 Hrs., Real Nice; 4640 C.A.Q.R. w/dual wheels; 4440 C.A.P.S. - Real Nice; 4440 C.A.Q.R.; 4240 Q.R. $15,500; JD 2940 w/F.W.D. & 260 Loader, Low Hours; 1977 JD 4230 C.A., Q.R., sharp, 2200 hrs.; 2940 w/R.G.; 8630 4 WD C.A.Q.R., Full EQ. w/Duals; 8430 4 W.D. C.A.Q.R., Fresh Motor - Real Nice; 6030 C.A. Duals - Nice; 4630 C.A.P.S. w/F.W.D., Real Nice; JD 4630 C.A.P.S. w/new tires; JD 4430 C.A.Q.R.; 4230 C.A.Q.R.; JD 4040 PS w/R.G.; JD 4030 w/creeper trans.; JD 4230 D w/RG Enclosure; 2940 w/R.G. & 38" Tires; JD 2630 w/Hi-Lo; 1530 w/Hi-Lo; (70) 5020 - $5,900; JD (5) 4020's 1964-1972; 4020 S.C., W.F.E.; 4020 P.S., S.C., W.F.E.; 4020 w/58 Loader; 3020 D. S.C., W.F.E.; 2520 Dsl.; 2020 Gas; 3020 Gas, PS, original; JD 4520 R.G. & cooler w/30.5x32 tires; 4010 D w/new clutch; 4010 Gas; 730 Gas w/3 Pt.; 630 Gas; 720 D. P.S. w/3 pt; 620 P.S.; 620 L.P.; JD 3010 Gas, real nice; JD 2020 Gas w/L; JD 4010 D., good; JD 2010 Gas, WF w/Hyd. JD Loader.

I.H. (New) 5088 Full Eq. C.A., never used. Sale Price, $33,450; 5488 Full EQ., Radial Duals - Like New; 786, one owner, original; 3288 C.A. West Int., radial tires, looks new; 1086 C.A. w/Dual Whls., original; 1586 C.A. Nice; 1586 w/R.G.; 886 w/Cab 18x38 Tires, 700 Hrs. Like New; 886 w/R.G.; 3588, 2+2 w/Dual PTO, 1300 hrs., real nice; 76- 1066 C.A.; Farmall 1066 C.A., original; Hydro 84, Hydro 70; 784 - 1,000 Hrs., Real Nice; 1568 C.A. - 1,000 Hrs., Real Nice; 1566 w/Cab; 1466 w/Cab; 1066 Hydro - Original; 966 Original; 766D.; 464 utility w/2250 loader; 666 D., WF, original; 674 D.; 574 D. w/Loader; 656 Gas; 806 D - $4,750; 464 Utility, Gas, PS; 1256 w/Cab, Nice; 756 D. W.F.E. & F.H.; 756 G Hi-Clear; 656 Gas - W.F.E. - Original; 656 Gas & Diesel; 656 D. Hi-Clear; 826 D. Hydro; 1206, Nice; 806 D w/3 pt., new paint for $4,475; 706 D. - W.F.E. - 3 pt. - $5,000; 706 Gas T/A, W.F.E.; F.H.; 606 Gas w/3000L; Super M; 230 w/F.H.; IH 240 Utility; 560D; F450 Gas, Tri., F.H. w/Loader.

Local Trade: AC 4W, 305, 4WD, 400 HP, fully eq. w/20x38 Rad. duals, used 120 hrs., like new.

New AC 8050 C.A., P.S., rad. tires, fully eq.; Used AC 8010 C.A., P.S. w/F.W.D.; used AC 6080 w/R.G.

A.C. New AC 6080; (Used) 7045 C.A. - 20 Spd. - Real Nice; 7040 C.A.P.S., Like New; AC 7010 C.A.P.S., like new; 210 - New 20.8-38 Tires; AC 200 D original; AC 220, real nice; XT190D. w/3 pt.

CASE (Used) 1690 C.A.P.S., 200 hrs.; Case 2590 C.A.P.S. - 925 Hrs. - Like New; 1370 C.A.P.S. Factory Duals; 380 D. w/R.G.; Case 2390 C.A.P.S. $14,800; 930 C.K. w/3 pt.; Case 885 D. w/L.

M.F. 2675 w/R.G. C.A.P.S.

(Several farm stocks purchased recently) IH 3288 w/C.A. w/670 hrs.; 1086 cab & air; JD 4440 w/P. Shift & R.G.; Case 2590 CA, PS; Case 2090 CA, PS, $14,800; 970 fender, original; JD 4230 CA, QR; 4320 real nice; J.D. 2940; 4020 SC; 3020 D.; JD 4520 w/Factory Cab; JD 2840, 1 owner; Farmall 76-1566 CA, duals; Ford County Super 6, 4WD, w/3 pt.; Farmall Super A w/Cult., Plow & Sickle Mower; Owatonna 1700 Skid Loader; Brillion transport wing harrow.

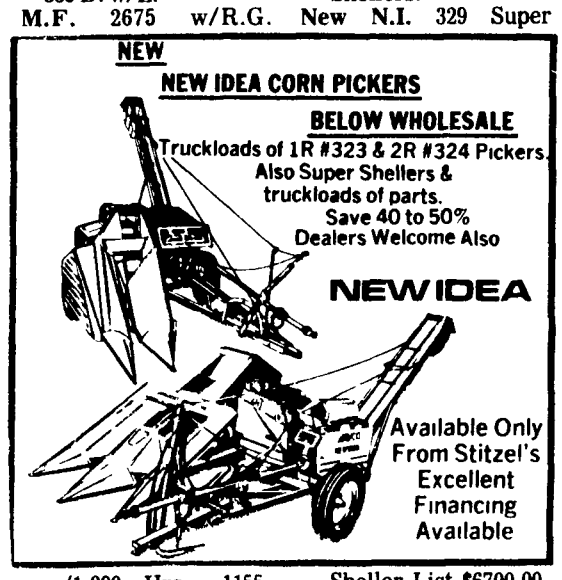
JD 4630 S.R. Cab & Air; JD 40 w/3 pt.; Case 310 Crawler Loader; Dunham Lehr 8R hydraulic fold S tine cultivator.

TILLAGE EQ.: IH 800, 9x, auto reset, flex plow; Bush Hog 20' Hyd. Fold Disk.

AC 28' Hyd. Fold Disk; Ford 236, 9' Heavy Disk, like new; Glenco SS18 Fold Soil Saver; Field Queen Side Dump Wagon (SOLD); Farmhand 880 Big Tub Grinder; JD Planters 6R Cons. w/Dry Fert.; 6R Cons./Liq. Fert.; JD 7000, 4R.

CORNPICKERS: (Used) 325-2RN w/8 or 12 Roll Husker, Shellers & Super Shellers; (Used) 324-2 RW w/8 or 12 Roll Huskers; Shellers & Super Shellers.

New N.I. 329 Super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w/1,000 Hrs.; 1155 C.A.M.P. - $8,500; 1135 C.A.M.P.; MF 184, 4WD.

Ford TW 35, used 150 hrs., local trade, like new.

Ford 9700 C.A., real nice.

FORD TW-20 w/220 Hrs. - Damaged; Ford 641 w/Hyd. Loader; '52 Ford 8N; Ford 4000 SU w/PS; Ford 3000 w/PS.

OLIVER 1855 w/20.8-38 tires; 1950 T w/Cab - $5,975; 1650 D., WF w/3SP; 1550 gas.

WHITE 4-210, 4WD w/duals, 3 pt. fully eq., 1600 hrs., real nice; (New) 2-65 w/F.W.D. & (New) 1730 Loader - List $29,000 Sale - $19,900; 2-135 C.A.; 2-85 w/R.G., canopy & 18x38 tires (SOLD).

MISC. Long 445 D. w/4WD, Loader, good; M.M. Vista G1000.

Tractors Coming In:

MF 1135 G.A. Original; (81) Case 2390 & 2590 Sheller List $6700.00, Special $3,550.

N.I. 330 - 3 RN w/Supershellers; 325 2RN w/Grinder.

JD 3020 w/NI 319 mtd. 12 roll picker, very nice; JD 237 mtd picker.

PICKER: NI 323, 1R, $1,950; NI 311, 2R picker priced right.

Just Traded: NI 325 w/12 roll bed.

Ford Blue, 1R side mtd picker, real nice.

FORAGE EQUIP.: Forage Harvesters w/Choice of Heads.

J.D. 5440 S/P w/R.W.D. C.A. - Hydro; 5200 S/P w/R.W.D. C.A.; Hydro; JD 3R 30" & 3R 34 & 38" rows, like new; Silage heads & 7' hay pickup heads; 3800 w/Elect. Controls; 34; 5200 S/P w/R.W.D. - Fire Damaged Cab (SOLD).

N.H. 890, S717; NH 880 w/2RN C.H., real nice; NH 782 w/heads; NH 770 w/heads; 3 NH 717 w/1R C.H. $1,000; NH 718 w/1R or 2R C.H.; NH open end hay pickup heads, 6', like new, $1,000; NH 890 w/2 or 3R C.H.; NH 890, 2R Super Head; NH 890 direct cut head; NH 707 3 pt., 1R & PU head, good.

GEHL 1200 w/3R C.H. & pickup.

GEHL 600 w/2R; IH 830 w/3RN & Pickup $3900.

FLAIL CHOPPERS: NH Used 38; NH 36.

FORAGE WAGONS: 2 JD 716A w/roof & JD 1275 tandem gear w/heavy tubes & tires, new in '85, like new, $7,950; N.H. #8 w/roof, like new; New Pequea hay tedder, $1,285.

HAY EQ.: BALERS: J.D. 346T w/Thrower; NH 310 w/Thrower; NH 320 w/#70 Thrower, $5395; NH 420, real nice; NH 275 & 273T w/Thrower; N.I. 456 Round Baler; N.H. 851 Rd. Baler.

RAKES: Used NH 256 for $1,450; NH 260 & 258 w/dual hitch setup.

N.I. (New) 406 w/Dolly Wheel - $2,275.

J.D. 660 w/Dolly Wheel; New Deutz Fahr 17' Hay Tedder, $2,500; Used Grim 17' Hay tedder.

HAYBINES: N.H. 1495 S/P Hydro C.A.D. - 1,100 Hrs. (SOLD); NH 1495 Gas, Planetary Drive w/half cab, $8,875; (Used) 489, 488 Nice; (2) 479; 472 7' (Nice) like new; (82) NH 489, real nice; NH 477, 7' for $2,350.

(Used) M.C. 7E; N.H. 1034 Stack Wagon.

FORAGE HEADS: N.H. 717-S Direct-Cut for 770 & S717; 890 EN-2RN Snapper Head; 770-1R Snapper Head; 1, 2, & 3R Silage Head; NH 822, 2R for 770 or 890.

J.D. 8' Direct-Cut Head; 1, 2 & 3R Snapper Heads; 2 & 3 R Silage Heads, New & Used 5½' Hay Pickups; 7' Hay Pickups; 4-R Stalker Head - Real Nice; JD 243 C.H. w/adapter plate; 3 JD C.H. harvester adapter plates.

I.H. 2 R.N. Silage For 550-650.

FOX 2 CSB 2RW - Snapper Head; 263-2 RW; 215-109 Hay Pickup; 476 - 7' Hay Pickup.

GEHL HA 400 Pickup.

PLANTERS: (Used) 7000-6R Cons. Liquid w/No Till; 7000-4R Dry & Liquid; IH 800 Cyclo 8R 30' w/liquid Fert., insect, & monitor; JD 4R Cons. w/Dry Fert. & Insect.; JD 7000, 8R w/Fert. & Insect; JD 1240 plateless, nice.

I.H. 800 Cyclo - 6R w/Dry Fert.; Ins. & Monitor.

WHITE 5100 - 6R Drl w/Cult.

DRILLS: JD 8300 (Like New) 100 Acres; 21x7 D.D. w/Soybean Att; JD 8300, 21x7 DD; IH 510-16x7 S.D. w/Fert & Grass Seed; J.D 8350 21x7 D.D. w/Fert. & Seed

New JD 28' Hyd. Fold Rotary Hoe Under Dealer Cost; Used 400-15'.

GRINDERS/MIXERS: Brady 1050 Hydro. Gr. Mixer; JD 400.

IH 1150, nice.

BLOWERS: NH 27; JD 6500, nice.

TILLAGE EQ.: PLOWS JD 2 & 3x #845 Rollover; I.H. 5x16 Semi-Mount w/Spring Reset; OLIVER 546 - 5x16 Spring Reset; I.H. 720- 6x20 sp. reset; I.H. 700 - 6x16 Spring Reset; WHITE 549-7x sp. reset; WHITE 549 6x18 Spring Reset On-Land; J.D. 7x; M.F. 6x on land hitch; (2) JD 4x16.

JD 8450-4B Rollover Plow.

CHISEL PLOWS: JD 14' w/Gauge Wheels; Brillion 12' w/gauge wheels & harrow; Brillion 8' & 9'; I.H. 55-12'. DISCS: Miller 10' Offset; Hutch Master 9' Offset Disk; JD 310, 13'; JD BWA, 12; A.C. 25' Hyd. Fold; JD 230, 20' hyd. fold; JD 215, nice.

MULCH TILLERS: Glencoe SS13 Hyd. Fold Soil Saver; J.D. 1710 - 11'; Krause 2800 - 14'.

CULTIMULCHERS: New Dunham Lehr 13' at dealers cost; JD 3 pt., 12' Mulcher.

PACKERS: (New) Brillion - 12'; (Used) Brillion 10, 12 ft.

CULTIVATORS: J.D. RM 3 pt. 6R rear; JD 4 row 3 pt. rear; Case 6 to 8R 3 pt. hyd. fold cult.; Littleston 4R field cult. J.D. 1000-25' - Hyd. Fold.

MISC: I.H. #2 & 7 Shank V-Rippers; Glencoe Soil-Finisher 12'9" - Like New; Howard 13' Rotavator; Bush Hog 7-Shank V-Ripper $1,650.

INDUSTRIAL: CRAWLER LOADERS: JD 450B loader; A.C. H-3 w/6 Way Blade; A.C. 500-21' Forklift; J.D. 840 Self Loading Scraper; Bobcat 722 Skid Loaders.

AC 715B L & B.; Clecteac crawler w/blade; Long 1199A, 3 pt. Backhoe, w/hyd. pump.

LOADERS & BLADES: J.D. 58, 148, 158, 36; IH 2350 2355 (New); Used 2001 New Great Bend 700; NI Loader; MF 246 Loader; I.H. 8' Blade Fits 400-560; (New) J.D. & I.H. Buckets; New Leon Heavy Front Blade for 4WD; Caldwell 7 & 8', 3 pt. blades; NI 4R shredders; Brady 4R shredder.

LAWN & GARDEN: IH Cub 154, Cadet 682; JD 950 dsl., real nice.

J.D. 318 w/3 pt., used 110 hrs. (SOLD); JD 400 w/loader; AC 620 w/Mower.

J.D. 400, 314, 317, 300, 214, 212.

Trailer load of (New) Killbros Bins & Running Gears; Bestland Rock Picker; Ford 3 Pt. 7' Sickle Mower; J.D. 350 Sickle Mower; (New) Sidewinder 213-13' Rotary Cutter; (New) McKee Snow-Blower Front-Mount; Tandem axle fert. spreader; NI sq. axle fert. spreader; JD Quick-Couplers; Sets Of Press Wheels For J.D. Drills; (2) New Sets J.D. 38" Cast Whls. & Rim For 4640; I.H. Flat Top Fenders For 706-1466; CABS For Tractors - J.D., I.H. 66 Series; (New) Full Vision Cabs For M.F. 165 Thru 1135; J.D. & I.H. Front & Rear Wts.

J.D. & I.H. Roll-Guards; Fast Hitch for 560 & 450; JD belly mowers for JD 850 & 950 etc.

Heavy Front JD blade for 3020 & 4020, etc.; 30 sets of Dual Wheels.

STRAW CHOPPERS: For J.D. 4400, 6600, 6620, 7700; M.F. 510.

TRUCKS: I.H. Scout 4x4; DELTA 44' Combine Trailer; 1979 Polar AM 42' 6200 gal. milk trailer.

MECHANICS SPECIALS: TRACTORS: J.D. 4230 P.S. - Trans; 4020 Tri; 4320 w/Cab.

I.H. 1256 - Motorwork, $3,950.

CASE 1410 - Motor.

WHITE 4-150 4 whl., needs motor work, $4,950.

OLIVER 1855, needs motor, $2,850; Oliver 1800 motor work, $1,950; ACXT190, clutch, $3,950; MF 1135 w/R.G., $6,950; JD 4520 w/Cab, $6,950; Farmall 1586 w/fire damage cab.

JANUARY NEW YEAR SPECIALS

TRACTORS	
JD 2010 Gas Tri P S	$ 1 925
JD 4010 Diesel Tri P S	$ 3 950
JD 4620 w Cab Good Cond	$ 9 500
JD 4230 Cab & Air Quad Range	$11 950
JD 4430 ROPS	$ 9 750
JD 6030 Cab & Air 175 HP Nice	$12 950
JD 2940 w Hi Lo 2 Post R G	$12 500
I H 706 Gas Tri F H	$ 3 250
I H 606 Gas w Loader	$ 4 250
I H 1206 W F E	$ 5 950
I H 1468 V 8 C A (145 H P	$ 5 950
Case 1070 Power Shift	$ 4 900
A C 180 Diesel W F E Very Good	$ 4 950
M F 1100 Diesel w Multi Power	$ 3 750
M F 1135 w 2 Post R G	$ 6 950
Ford 9600 w Cab & Dual Power	$ 7 450
COMBINES	
J D 6600 Diesel SOLD & 15 Grain Good	$ 8 500
J D 6600 Gas w Cab (Needs Some Motor Work)	$ 4 500
I H 203 w 13 G H & 227 C H	$ 1 950
I H 915 D w Cab 13 G H & 744 SOLD	$ 7 500
Gleaner F w 10 & 238 C H	$ 2 350
Gleaner L D w Cab Corn Soybean Special w 13 G H & 438 C H	$ 8 950
M F 510 Diesel w Cab & Q T Grain	$ 5 875
TILLAGE EQ	
New Landoll 230 22 Hyd Fold Chisel List 11 000 +	$ 7 450
New DMI 12 Chisel	$ 2 350
Used Brady 1000 14 Chisel	$ 1 500
IH 480 Wing Disk 20	$ 2 250
Kewanee Wing Disk 20	$ 1 350
MISC	
J D 336 W Baler w Thrower Real Nice	$ 4 450
N H 280 Wire Baler w Motor	$ 995
Fox Super D Self Propelled Chopper w 2RW Corn head	$ 4 000
J D 7000 6R Plate Planter	$ 3 750
I H 400 Cyclo 6R Liquid Planter	$ 1 500
New 8 Heavy 3 Pt Blades	$ 575

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TRACTORS
- Case 430
- Case 1030
- Case 1070
- Case 1490
- White 2-105 Tractor
- David Brown 990 w/Loader
- David Brown 1200
- Ford Jubilee
- Farmall H w/Loader

LOADERS
- Case 1816B Skid Loader
- Case 450 Crawler Dozer
- NH L425 Skid Loader

TILLAGE
- IH 3-16 Plow, Auto. Reset
- IH 370 Disc, 10 Ft
- Int. 2-Bot. Trailer Plow
- Case Disc Harrow, 10'
- Case Field Cultivator
- Oliver 22' Disk
- Oliver Disk
- Used Cultipacker

HARVESTING EQUIPMENT
- Hesston 2000-150 Harvester
- Hesston Harvester Head-3 Row Wide
- Hesston Harvester Head-3 Row Narrow
- NI Unisystem, 702 Diesel, 710 Combine & 760 Harvester
- NI 709 Uni-System
- NI 315 Sheller
- NI 717 Combine
- NI 737 Husking Bed
- NI 838 Husking Bed
- NI 767 Super Chopper
- NI 323 1-Row Corn-picker
- NI 325 12 Row Husking Bed
- NH 717 Harvester
- Gehl 800 Harvester
- Gehl 1200 Harvester w/pickup and 2-row cornhead

HAY EQUIPMENT
- IH 1190 Windrower
- NH 469 Windrower
- NH 479 Windrower
- Hesston PT 10
- Hesston 1010 Windrower
- 2 Bale Thrower Wagons
- Case Hay Rake
- NI 456 Round Baler
- NI 484 Round Baler

MISCELLANEOUS
- JD 38 Ft. Elevator
- Zimmerman Elevator
- King Wise 32' Elevator
- IH 56 Blower
- Int 56 4-Row Planter
- IH No. 10 13-Disc Drill
- 4-Row Cole Corn Planter
- 6 Used Spreaders
- Scavenger 1263 Manure Spreader
- Scavenger 1678 Manure Spreader
- NI 218 Spreader
- NI 224 Spreader
- NI 245 Spreader
- Weaverline Cart, 24 Bushel
- Weaverline Cart, 30 Bushel
- (1) Gravity Bin Wagon

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White 2 135 Tractor
MM 670 Gas Tractor
Haybuster 1068 No till Drill
NI 213 Manure Spreader
White 281 10' Offset Disc Harrow
Century 200 gal 3 pth weed sprayer, 35' Boom
18' Hydraulic Fold Field Cultivator
18' Brady Hyd Fold Chisel Plow
JD 5B 16" Plow
JD 3B 16" Plow
Athens 10' Chisel Plow, 3 pt
White 543, 4R Corn Planter
Ford 2 Row Cultivator
Fox 728 2R Corn Head
NI Rotary Cutter
NH 512 Manure Spreader
White 271 23 Disk Harrow
Brady 722 Flail Shredder
Hesston 7150 Forage Harvester
Westfield 31'6" Auger
Cardinal 53'8" Auger
Glencoe Field Cultivator
Better Bilt 1100 Gal Liquid Spreader
Ford 501 Mower
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- * 1 & 2 Bottom Plows
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- * Box Blades 4'-8'
- * Stone Rakes 6'-8'
- * Post Hole Diggers
- * 1 Row Cultivators
- * Dirt Scoops
- * Boom Poles
- * Rear Carriers
- * Wood Saws
- * Fertilizer Spreaders
- * Concrete Mixers
- * Field Cultivators
- * Potato Plows
- * Hay Rakes & Tedders
- * Rotary Mowers 4'-7'
- * 4'-6' Finish Mowers
- * Bale Carriers
- * Sickle Mowers
- * Rototillers
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NEW EQUIPMENT

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JD 755, 2WD
JD 750 2WD
JD 655, 2WD & 4WD
JD 855, 2WD
JD 1250, 2WD
JD 2150, 2WD
JD 2550 2WD
JD 3150 MFWD, SG
JD 4250 MFWD, SG, PS

PLANTING EQUIPMENT
JD 7000 Cons. Pltr. 6R
JD 71 Flex Planters

TILLAGE EQUIPMENT
JD 2860 5B Plow
JD 215 11'5" & 12'10" Disc
JD 1610 Chisel Plow
JD 712 Mulch Tiller, 13'

HAY TOOLS
JD 1219 Mower Conditioner
JD 327, 337 & 347 Baler
NH 316 Baler
JD 660, 670 Rakes

OTHER EQUIPMENT
JD 1065, 1075 & 1275 Wagon
JD 716A FG. Wagon

USED EQUIPMENT
IH 966
IH 706
IH Hydro 84 w/Cab & Loader
AC 200 w/Cab
Long 445 Tractor
JD 16' Grain Platform
Fox 3000 Fg. Harv.
JD 346 W Baler w/Thrower
JD 346T Baler w/Thrower
JD 336 Baler w/Thrower
NH 310 Baler w/Thrower
JD 4400 G Combine
JD 444 Corn Head
Ford Sickle Bar Mower
Kuhn 6' Sickle Bar Mower

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Forage Blowers
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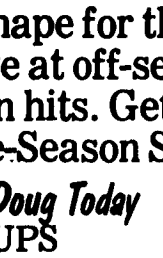
Oswalt Mix Wagons
Grain Drill with band seeder
Post Hole Digger



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1977 JD 4430 Cab Air, Wgts Duals
JD 2440 & JD 2640 Utilities
JD 146 Loader for Above

IH 1466 w/Cab
IH 1066 No Cab
IH 715 Combine w/282 Dsl engine nice $5 250
810 13 Grain Table for Above $1 250
JD 4020 Dsl under 3000 hrs actual
MF 510 Dsl Hydro w/880 hrs
IH 986 Tractor w/Cab & Air
IH 856 Dsl No Cab w/38 Rubber

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SALES & SERVICE

EQUIPMENT
- New Leon Loader w/Bucket $1,200
- New Farmco 16 Ft. Hay Feeder $615
- 1150 Int. Grinder Mixer $1,400
- 455 N.H. Mower w/New Guard & Wear Plates $995

TRACTORS
- 135 Massey, Excellent $3,950
- AC D19 Gas w/Pulley $2,600
- 930 Case w/Pulley & Steel Wheels $4,850
- Int. 560 Gas, Wide Front, F.H. $2,700
- Farmall Cub w/Mower $2,000

AVCO VM Diesel

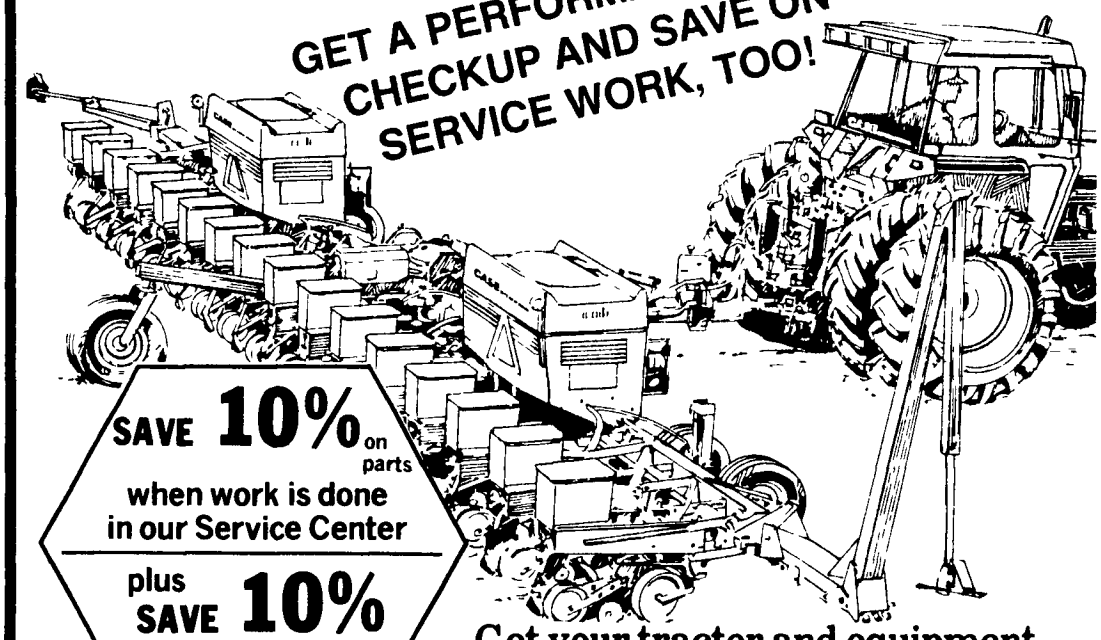
MILLER'S REPAIR
1 Mile North of Bird In Hand
8 Miles East of Lancaster
RD 1, Bird in Hand PA Ph 717 656 6109

PARTS VALUE OF THE MONTH

Pre-Season **Service Savings**

BE READY FOR SPRING

GET A PERFORMANCE PLUS CHECKUP AND SAVE ON SERVICE WORK, TOO!



SAVE 10% on parts when work is done in our Service Center

plus SAVE 10% on labor

Get your tractor and equipment in top shape for the busy season and save at off-season prices.

Don't wait until the busy season hits. Get your tractor ready to roll now at special Pre-Season Service Savings.

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Farm Equipment Is Our Business
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Phone: (717) 367-1319, 653-8867 OR CALL TOLL FREE 1-800-222-3373
We Ship UPS

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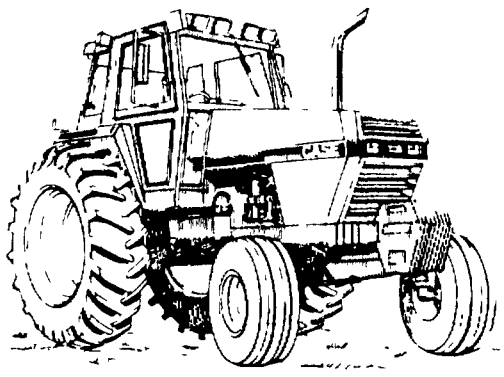
We Ship UPS

SERVING THE FARMER FOR 35 YEARS

It Pays To Buy From A Company Whose Business Is Sales AND SERVICE

CASE IH 2294
2 WD, 131 H.P.



12 Speed, Power Shift Transmission,
True Ground Speed Sensor

See Us At The Case IH Display At The PA FARM SHOW

NEW CASE 1845C UNI-LOADER
51 H.P.

Water-Cooled Diesel Engine
w/Bucket & Big Tires

Also In Stock: 1835 B

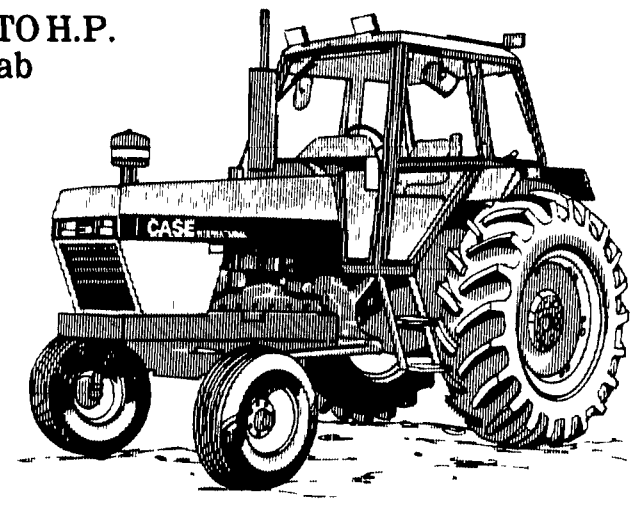
If You're Buying A Skid Loader,
Prices Have Never Been Better

You Can Own This Machine For Less Than You Think!

CALL TODAY!

You've Never Seen So Much In A Tractor Until You've Seen The CASE IH 1494 TRACTOR

75 PTO H.P.
w/Cab
&
Air



Also In Stock:
Case IH 1594 4WD w/Cab & Air

GOOD CLEAN USED EQUIPMENT

HAY & FORAGE

- IH 555 Forage Harvester w/Cornhead & Pickup
- NH 770 Harvester w/2 Row Cornhead & Pickup Attachment
- IH 56 Blower
- NH 320 Baler w/70 Thrower
- NH 258 Rake w/Dolly Wheels Used 1 Season
- NH 880 w/Pickup Attachment
- IH #40 Shredder 4 Row
- NH 2 Row Snapper 30 Rows
- IH 37 Baler
- NH 269 Baler w/Thrower
- New Idea Wheel Rake
- Magee Grinder Blower For High Moisture Corn
- NH 442 Disc Mower
- NH Model 1890 Self Propelled Forage Harvester, CAT Engine 3 Row Cornhead & Pickup Attachment Good Condition
- Gehl 99 Twin Blower Excellent Condition
- NH 489 Haybine
- Woods Model 208 Rotary Cutter
- NH 67 Baler w/Chute Nice
- MF Model 1560 Round Baler
- NH 24 Elevator
- Little Giant Elevator Like New
- NH 315 Baler w/Super Sweep 70 Thrower Ex Cond

PLANTING & SEEDING

- IH 400 Planter 6 Row w/Dry Fert
- AC Grain Drill

TILLAGE

- 9 Tooth Glencoe Soil Saver
- JD KBA 10 Ft Transport Disk Harrow
- IH 370 Disk 12 Ft
- MF Hyd Wing Fold Disc Harrow, 19 Ft., Ex Condition
- IH 700 Plow, 4 Bottom 16" Semi-Mt
- Case 8 Ft Disc Harrow
- IH 710 5 Bottom Auto Reset Plow

MISC.

- Cab Year A Round Fits 56 Series Tractors $795

SPREADERS & GRINDER MIXERS

- NH 791 Hydraulic Headgate
- Tandem Axle Starline Tank Spreader Excellent
- NH 519 w/Hyd Endgate
- NI 10 Ton Tandem Axle Hyd Gate Top Beater Ex Cond
- NH 790 Spreader w/Hyd Endgate & Splash Guard 10 Ton Real Nice

SKID LOADERS

- NH L775 Skid Loader w/66 Bucket & Backhoe
- NH L775D Loader Deutz Diesel w/Bucket Only $8 950

NH 1495 SELF-PROPELLED HAYBINE W/CAB

Don't Miss It!

Air, Hydrostatic Drive, Diesel Engine, Excellent Condition, 161 Hrs.

TRACTORS

- IH 184 Cub Lo-Boy w/Mower
- Farmall H w/Loader
- Farmall 350 Fast Hitch
- Farmall 300
- Case IH 684D 4WD
- MF 30 w/Loader, Hyd. Dump, $1,295
- IH 966 w/Cab, Ex. Condition
- Cockshutt Tractor, Model 30, Nice
- IH 966 3 Pt. w/20.8x38 Rear Tires, Ex. Cond.

FREE FINANCING TILL APR. 1, 1987

CASE IH MODEL 584

4x4 w/2250 Loader, 65 Hrs.

Want A Good Deal-Check It Out

CALL FOR DETAILS

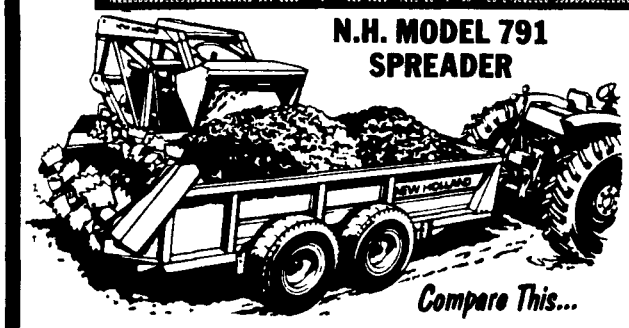
Waiver Until June 1, 1987

ATTENTION FARMERS: If Parts Are Needed After Hours To Keep You Going, Call Jay Gainer, Our Parts Mgr. At Home 653-2238.

YOUR NEW HOLLAND EQUIPMENT HEADQUARTERS

See Us At The New Holland Exhibit At The PA. FARM SHOW

N.H. MODEL 791 SPREADER



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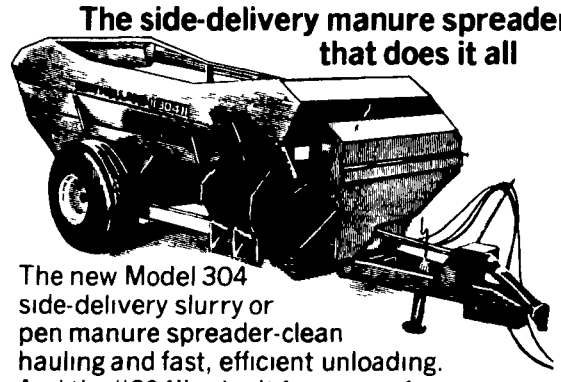
Load More Bushels With A Big 227 Cu. Ft. Struck Level

- Extra Heavy Duty Floor Chain w/24,500 Lbs. Tensile Strength
- 16 Bolt-On Replaceable Heavy Duty Paddles

Hay In A Big Way!
1496 Haybine® Mower/Conditioner

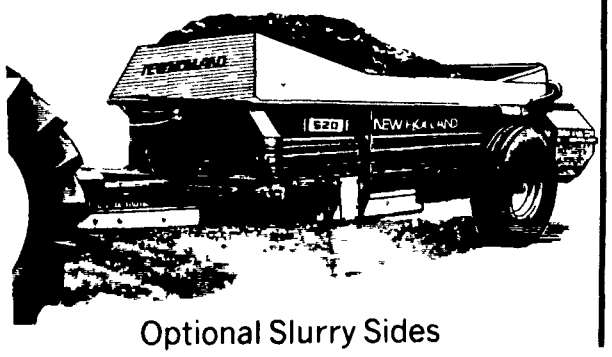
Exclusive Features
★ Hydraulic Guard Angle Control
★ Rollareel Header
★ Twin Sickle Drive
★ Swath or Windrow

NH MODEL 304
The side-delivery manure spreader that does it all



The new Model 304 side-delivery slurry or pen manure spreader-clean hauling and fast, efficient unloading. And the "304" is built for years of reliable service

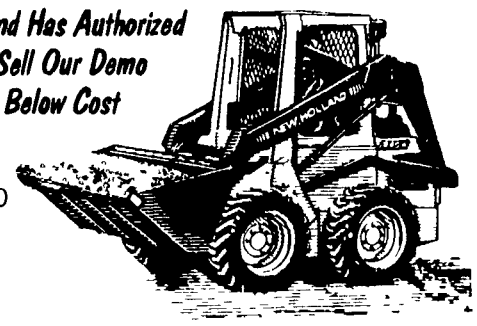
NH 520 BOX SPREADER
217 Bushels



Optional Slurry Sides

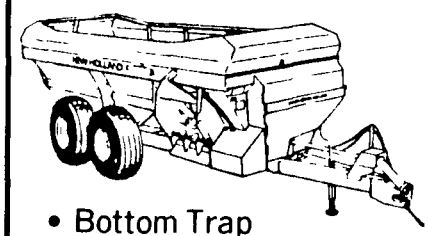
NH MODEL L455 DIESEL SKID LOADER

New Holland Has Authorized Us To Sell Our Demo Unit Below Cost



- 27x10 50 Tires
- Lights

NEW MODEL 308 SLURRY SPREADER
Spreads 10 Tons Per Load!



- Free Floating Auger
- Long Tong
- Bottom Trap Door
- Right Hand Discharge

Only One Left Demo Unit

Call Us For On Farm Demonstration

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NEW HOLLAND HAY AND FORAGE EQUIPMENT

0% Financing For 30 Months
OR
Free Finance With An Additional 36 Months Financing At 5.9% A.P.R.*
OR
Cash Rebates Up To $16,275
*When Using Ford Motor Credit Co Financing

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1 FARM EQUIPMENT

MM 900, completely redone, new tires; NH 850 round baler, always kepted inside. 301-833-1847

Combines, corn heads, grain heads-inventory moving fast. It's hard to keep up with advertising. Wholesale prices only. Call us. "The Combine Man". 814-635-3689

USED TRACTOR PARTS, also rebuilt clutches and torques. We ship UPS. Hill-T Farm Sales & Service, 4295 Richmond Palestine Road, New Madison, Ohio 45346. 513-548-0718.

Leaman Tractor Parts

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Willow Street, PA 17584
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Just In For Parts
Year Round QT-1 Cab, Fits 06 and 56 tractors.
Shifter packages to convert IH 06 tractors to 56 series.
IH 450, excellent motor
Several Sets 34" & 38" Tires & Rims

USED TRACTORS

- Farmall 856 cab, 3 pt., WFE, 3,800 hours, radial tires, excellent shape
- Super MTA, good solid tractor with power steering, TA rebuilt
- 1985 Case 1194, 100 Hours, Tractor is like new.
- Farmall 856 Diesel, Wide Front, 3 Pt. rebuilt TA, good tractor, price reduced.
- Farmall 966, 1975 Model, Diff. Lock and Clutch Assist, Cab and Air, Good Solid Tractor.
- 1978 Deutz 100-06, 2860 original hours, cab & air, duals and weights. Very nice tractor.

Delivery Available Anywhere

Quality Used Parts
We buy and sell used parts and parts tractors. We have a good selection of quality used parts at competitive prices. Please have part no. when calling, if possible.

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1337 Lincoln Highway East
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Phone: 717-263-0705
Sales - Parts - Service

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(2) Ford 2000
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Ford 2910
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Ford 3000 Gas
Ford 3600, 1981 w/PS
Ford 3600, 1981, low hrs
Ford 3910
Ford 4000 1966
Ford 4000 SU, Gas
Ford 4100
Ford 4110
Ford 4600
(2) Ford 5000
Ford 6600, 4WD
Ford 6610
Ford 7000 DP
Ford 7700 w/cab & DP
Ford TW15 w/cab & air
Ford TW20, cab & air
JD 1630
(4) JD 2130
JD 3120
JD 3130
(2) JD SOLD 2WD
(2) JD 4240, 2WD
(2) JD 4240, 4WD, cab & air
JD 4430, fender tractor
JD 4640 w/cab, 4WD
JD 450 crawler loader, good
Farmall H
IH 574 Gas
IH 1206
MF 285
MF 1080
Universal 550, 4WD
T020 Ferguson
225 Timber Jack

We also have a large inventory of tractors at our other location at 4530 Olde Scotland Rd., ¼ mile off Exit 8 on 696 North.

¼ Mile East of Exit 6 I-81 on U.S. 30
Hours: 8:30-5:00 Mon.-Fri.
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NEW EQUIPMENT
WHITE-
2-88 Tractor w/Cab
508 4/5 Bot. Plow
598 5/6 Bot. Plow
5100 6-Row Planter w/Dry Fert.
Field Boss 16 Compact Tractor, 4WD

KUHN-
10' 2 Pull Type Tedder
11' 6 Rake & Tedder
17' Pull Type Tedder

GEHL-
BU970 For. Box
FB 1580 Blower
RM 1460 Round Baler
DC 2330 Disc Mower Cond.

NEW IDEA

FARM EQUIPMENT
NEW IDEA-
353 Spreader
362 Spreader
272 Cutditioner

USED EQUIPMENT
NI No. 10 Cornpicker
Gehl FB99 Blower, Reconditioned
NI 213 Spreader
Int. No. 110 Forage Box with No. 330 Running Gear, Nice.

MILLER EQUIPMENT CO.

RD 1 Bechtelsville, PA
215-845-2911

TRACTORS
Ford 1700 w/Mower
Ford 9000 Cab & Duals
Ford 3910, like new
Ford 2110 4WD w/Loader
Ford 2000 w/Blade
Ford 835 Loader & Hoe
Ford 601 w/Blade
Ford 555 Loader & Hoe
Ford 550 Loader & Hoe
Ford 4610, 800 hrs.
Ford 3400 w/Loader
Ford 3400 Loader & Hoe
Ford 3600 D.
Ford 3000 w/Loader
Ford 3000 8 speed
Ford 2810, 600 hrs.
Ford 2110, 500 hrs.
Ford 2000 D, NFE
Ford 2000 G, 8 SP
Ford 1100, 4WD
Ford 801 w/Loader
Ford 420 w/Loader
Ford 335 w/Loader
Ford 7600 w/Dual Power
MF 180, 8SP
Mitsubishi 210, PS
AC D15 3 pt.
AC CA w/equip.
IH 574 w/Loader
IH 454 G, PS
Case 830
JD 3020 D., NFE
JD 3010 D., NFE
JD 2010, G, NF
JD 850 w/Loader
JD 60 PS, LPTO
MF 175 D 8 speed
MM 445, WF
NI 323 Picker
NI 206 Spreader

KELLER'S FARM MACHINERY, INC.
116 Richlandtown Pike
Quakertown, PA 18951
215-536-4046

TRACTORS
TW30 w/Duals
JD A
MF 180
IH 1066 w/Cab
Ford 3550 TLB
Ford 7710 w/Cab
Ford 7700, 4WD, Less Cab
Ford 5610 Less Cab
Int. 656
AC 160
Ford 4000 Gas, SOS
Ford 1100 2WD
Ford 1100-4WD w/mid mower
8 & 9 N's

EQUIPMENT
NH 489 Haybine
NH 78 Baler w/Thrower
JD 24T Baler w/Kicker
NH 717 Harvester
NH 782 Harvester repossessed
NH 717 Single Row Corn Head
Lots of Lawn & Garden Tractors w/Mowers & Snow Blowers.
Artsway 325A Grinder Mixer w/Scales
NH 425 Skid Loader
Bobcat 843 Skid Loader Perkins Dsl.
Bobcat 610 Skid Loader

CHARLES S. SNYDER INC.

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Tamaqua, PA 18252
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GUNTHER HEUSSMAN INC.

SO. 5TH ST., EMMAUS, PA. 18049 — 215-965-5203

Call John Bolton or Gunther

QUALITY LATE MODEL FARM EQUIPMENT

TRACTORS

1980 JD 4440 Dsl., Cab, Air, Quad, 20x38 Rubber, 2100 Hrs., very nice
JD 4440 Cab, Air, Quad, 1400 hrs., excellent
1977 JD 4230 Cab & Air, Quad Shift, very nice
JD 4430 Dsl., Power Shift, 4 Post Roll Guard
JD 4320 Dsl. Cab & Air
JD 4240 Dsl., Cab, Air, 1900 hrs., nice
JD 4230 Dsl., Cab, Air, Quad, 1500 hrs.
1977 JD 4030 Dsl. Cab, Air Quad, very good
JD 3020 Gas, Side Console, low hrs., very nice
JD 2940 Dsl., 1800 hrs., very good
JD 2510 Gas, WF, very good
JD 2940 Dsl., 700 hrs. w/148 loader, excellent
JD 2510 Gas 1600 original hrs.
JD 2440 Dsl., Independent PTO, Dual Hydraulic, very nice
JD 630, WF & Fenders, original 3200 hrs.
1980 IH 986 Dsl. Cab & Air, Digital Clock, Red Seat, very nice
1980 IH 886, Cab & Air, low hrs.
IH 1466 Dsl. w/Cab, Dual PTO and Hydraulic, extra clean
IH 1066 Dsl., Red Cab & Air, New TA
IH 966 Dsl. Fender Tractor, 1400 hrs., 18x38 Rubber, excellent
IH 766 Dsl. w/Roll Guard, very nice
IH 666 Dsl., WF w/3 pt.
IH 856 Dsl w/Cab, extra nice
MF 1155 Dsl., Cab & Air
Ford 2110 Gas w/Blade and Flail Mower, 377 hrs.
Ford 5000 Dsl., 8SP, 2100 hrs.
AC 185 Dsl., like new
Kubota B6000 Dsl., 4 WD w/loader and 3 pt. rotary mower

CORN HEADS

JD 244, 2RW
JD 343, 3RN Corn Head
JD 443, 4RN — AC Black 430
JD 443, 4RN LP — IH 943, 4RN
JD 444, 4RW — IH 843, 4RN
JD 643, 6R 30 — IH 844, 4RW
AC 438, 4RW — MF 43, 4RN
AC 430, 4RN — MF 1163, 6RN

CORN PLANTERS

JD 7000, 4RW, Dry Fert., Insect., No-till Coulters, Calf Press Wheels
JD 7000, 4RN, Dry Fert., Monitor, Insect.
JD 7000, 4RN, Dry Fert.
JD 1240, 4R Dry, Fert., Insect, Disk Openers, Minimum Tilt Coulters
IH 400, 6RN Dry Fert., Insect., Monitor, very nice
JD 7000 SOLD Dry Fert.

LOADERS

Ford 335 Dsl. Loader Tractor, 360 hrs., 3 pt. & PTO, like new
JD 2640 Dsl., 1400 hrs. w/148 Loader
JD 2630 Dsl., 2200 hrs., w/146 Loader and Direction Reverser
Gehl 2600 Skid Loader, 1100 hrs.
NH L445 Skid Loader SOLD w/Deutz Dsl Engine
Case 1816C Skid Steer Loader, like new

FALL SPECIALS

1968 JD 4020 Dsl., Power Shift, Side Front . . $5,950
JD 2630 Ind. PTO . . $6,850
JD 4020 Diesel, Side Console, Wide Front. $6,950
JD 520 w/3 pt.. Power Steering . . . $1,650

NEW ARRIVALS

IH 766 Dsl. w/YR Cab, very nice
MF 1135 Dsl., Cab & Air
JD 230 Hydraulic Wing Fold Disk
JD 310 Disk
NH 676, 275 bushel Tandem Axle Manure Spreader, 2 Beaters, very nice
1973 JD 4400 Dsl. Combine, Cab & Air, 13' Grain Table

TILLAGE

JD 1100 Field Cutlivator, Hydraulic Fold, 20'
Brady 17' 3 pt. Hydraulic Fold Field Cultivator
JD 1710A 11 Tooth Conser-till
JD 950, 12' Roller Harrow, like new
IH 9 Tooth High Clearance 3 pt. Chisel Plow
IH 700, 4x18 Spring Reset Plow
IH 720, 4x18 Spring Reset Plow
IH 720, 5 Base Spring Reset
IH 710, 6x18 Spring Reset On Land Plow
IH 710, 4 & 5 Base Spring Reset 16 & 18"
JD 4 & 5 Base Semi Mounted
JD 3 Base 3 pt.
JD BWA 12'
JD 12' BWF Disk
JD AW 11' Disk

CORN PICKERS

NI 325, 2RN w/Super Sheller
NI 325, 2RN w/12 Roll Bed, like new
NI 324, 2RW 8 Roll Husking Bed
NI 323, 1R

MISCELLANEOUS EQUIPMENT

JD 8200 Grain Drill, new w/Grass Seed 18 Single Disk Openers
JD 8250 Grain Drill, Fert., Grass Seed, 21 Single Disk Openers
JD FBB 17x7 single disk Grain Drill, Grass & Fert.
JD 400 Grinder SOLD 540 PTO, very nice
NH 354 Grinder Mixer
JD 5½' Hay Pickup, like new
JD 148 Loader for 2840 & 2940 Tractors
Bush Hog Loader, Quick Tach, like new
18x38-18x34-20x38 Duals
Cabs to fit IH 706 thru 1466 Tractors
Cabs to fit JD 3010-4320 Tractors
NH 513 PTO 170 Bushel Manure Spreader
JD 214 Self-unloading Forage Wagon, very good
IH Roll Guard w/Canopy
JD RG & RM 4&6R Cultivator

Trade In Special
JD 2020 Dsl., w/47 Loader, $4,200

SPECIAL
MF 300 Combine 2R Corn Head & 12' Grain Table
1 Owner, very nice $3,650

HAY EQUIPMENT

JD 1219 Mower Conditioner, excellent
JD 1209 Mower Conditioner, Late Model
JD 346T Baler w/30 Ejector
JD 327 Baler w/#30 Ejector
JD 24T Baler w/Thrower, good condition
JD 337 w/30 Ejector
JD 410 Round Baler, very nice
NH 38 Flail Chopper, excellent condition
NH 467 Haybine
NH 852 Round Baler, Auto Wrap, excellent
NH 850 Round Baler
NH 315 Baler w/Thrower
JD 640 Hay Rake
NH 56 Hay Rake
NH 1002 Bale Wagon
NH 1012 Bale Wagon, Single Bale Unload
JD 3800 Harvester w/2R Head, very good
NH 770 Wide Open End PU Head

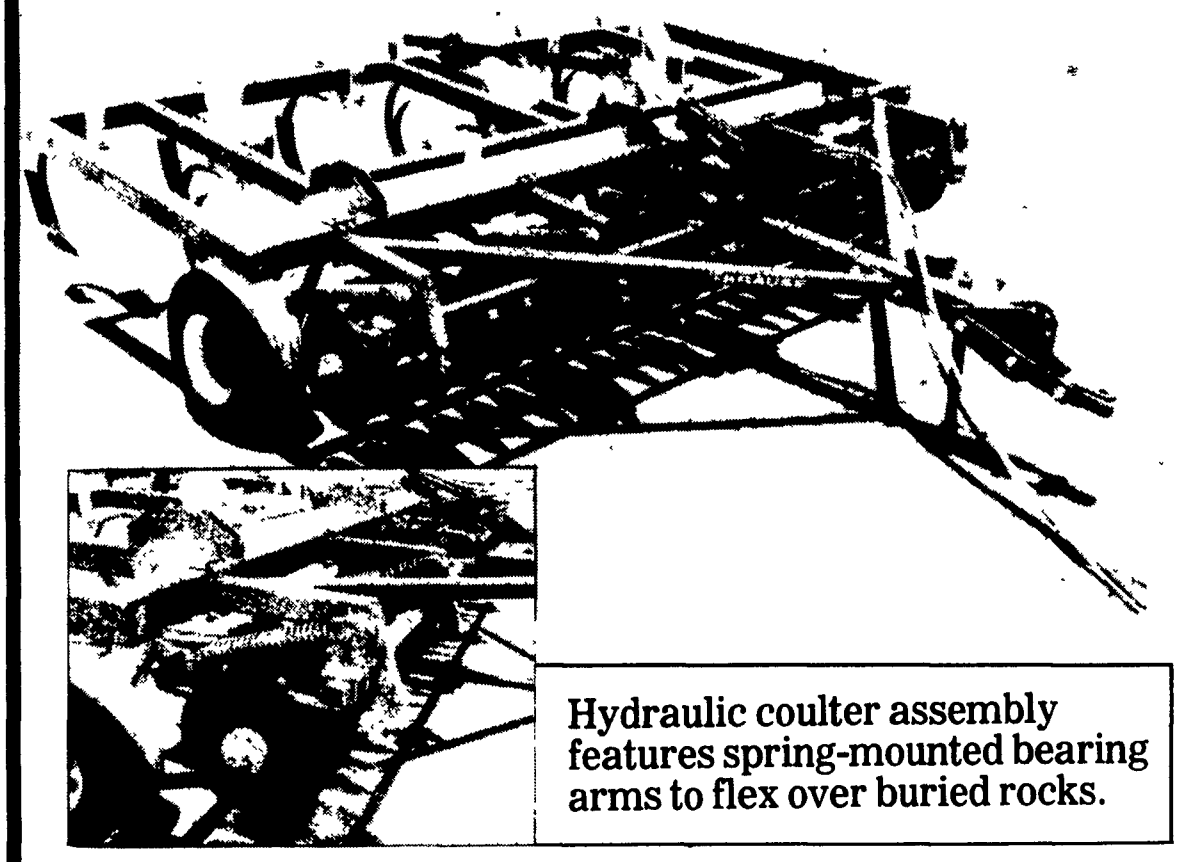
COMBINES

1980 IH 1460 Cab, Hydro, 28Lx26 Tires, very nice, Choice of Heads
1980 MF 750 Dsl., Cab & Air, hydro, 1400 hrs., very nice
1981 IH 1440 Dsl. Cab, Air, Hydro, excellent
1979 JD 4400 SOLD Dsl. Cab, Air, 900 Hrs., excellent
1980 Gleaner F2 Dsl. Cab, Air, Grain Saver, 450 hrs., 13' Grain Table, excellent
MF 550 Dsl., Cab, Air, Hydro, 1300 hrs., 23" Rubber, Choice of Heads
JD 3300 Gas, Rotary Screen, Choice of Heads, very nice
IH 82, 7' Pull Type Corn & Soybean Chopper to fit JD 3300-4400
JD 215 & 213 Rigid Grain Platforms
MF 13' Grain Platform
IH 820 13' Flex Head
Gleaner 15' Flex head to fit F & F2 Combines

Good Selection of Grain Tables
Financing Available on Above Machines

KRAUSE DOES IT AGAIN

By Equipping The 2880 LANDSAVER™ COULTER-CHISEL With A Combination Of SPRING RESET SUB-SOIL SHANKS And CHISEL SHANKS



Hydraulic coulter assembly features spring-mounted bearing arms to flex over buried rocks.

All the Soil Conservation people are talking about combining subsoiling while you chisel plow. Krause has done just that.

Increase water retention and decrease run-off at the same time.

Crop production increases as well.

See The 2887 Landsaver™ At The Krause Display At The PA FARM SHOW, Booth # 74-77

7 SHANK Equipped With 4, 36" SPRING RESET SUBSOILER SHANKS AND 3, 32" SPRING RESET CHISEL SHANKS

USED TRACTORS

- IH F706 w/Fast Hitch, Gear, TA, 540-1000 PTO, 16.9x38 Tires (W1736)
- Versatile 160 4WD w/ Loader, Diesel, Hydro, AC, 540 PTO (W1364)
- IH 966 Diesel, Gear, TA 18.4x38 Tires, 1000 & 540 PTO (W1439)
- IH 4140 Gas Skid Loader w/60" Bucket (W1562)
- IH F460 Diesel Gear, 2 Point Hitch, 15.5x38 Tires, 540 RPM PTO (W1446)
- New Holland L778 Skid Loader, Hydrostatic, Gas (W9768)
- Case 1537 Uniloader
- IH 1206 Diesel, Hydro, Cab w/AC, 540-1000 PTO, 28.1x34 Tires (W1670)
- IH F1066D, 18.4x38 8P, Dual PTO, Gear (W1316)
- IH F1066, Diesel, Gear, 540 & 1000 PTO, 20.8x38 Tires (W1715)
- IH 6388 2+2, 4WD, Diesel, Gear, AC, 540 & 1000 PTO, 4 Hyd. Outlets, 18.4x38 Duals (W1681)
- Case 1845 Uniloader, 72" Mat. Bucket & Fork (W2153)
- IH 856 w/Yr. Cab (W2126)

USED TILLAGE

- Krause 3124 Landsman
- White 252 10' Disc
- Bush Hog 12' Disc, 9" Spacing
- Deere 110 Disc, 10'9" Spacing (T8034)
- Athens 131 Flex-Frame Disc, 14', 9½" Spacing (T1556)
- IH 470 18' Disc, Rear Mulchers, Tandem, Spacing 9" Frt. 7½" Rr., Size 16½" Frt. 17½ Rr., Cyl. & Hoses (T1699)
- JD 111 Disc, 10', 9" Spacing (T1602)
- Athens 83 10' Disc, Size 19" Frt. 21" Rr., Cyl. & Hoses (T1604)
- Rhino FB90 Disc 24', Size 20" Frt. 21" Rr., 9" Spacing (T1714)
- IH 501 14' Disc, Tandem, 10½" Spacing, Front 19", Rear 22" (T1824)
- IH 14 Subsoiler, Auto. Reset, Coulters, Gauge Wheels, Like New (T1514)
- Colby 12' Disc, Front Notched Blades (T1769)
- JD 330 Disk, 20' Flex Wing, Tandem, Spacing 11" Front & Rear (T1950)
- Landoll Soil Saver, 15 Shank (T1960)
- JD E1700 Tiller Chisel, 9 Shank, 22" Blades, Spike Drag (T2091)

USED COMBINES

- IH 205, Gas, Cab, 12" Header, 227 Cornhead (U1132)
- IH 715 Diesel, Gear, Cab, 23.1x26 Tires (U1849)
- Deere 4400 w/Straw Chopper, Hydro, AC, Diesel, 18.4x26 Tires (U9806)
- Gleaner "G", Diesel, Cab, Gear (U1369)
- IH 815D Hydro, A.C., 23.1x26 Tires (U1844)
- JD 7700 w/Straw Chopper, 24.5x32 Tires, Gear w/Variable Speed (U1361)
- MF 510 AC, Grain Saver, 18.4x26 Tires (U1995)
- MF 510, AC, 18.4x36 Tires (U1992)
- IH 715 w/Straw Chopper, Diesel, Hydro, AC, 23.1x26 Tires, 1100 Hrs. (U1961)
- IH 1460 Hydro, AC, 28x26 Tires (U2060)
- IH 1480 4 WD, Hydro, AC, 34x30 Tires (U2034)
- JD 6620 Side Hill w/DJ Monitor, Hydro, AC, 28Lx26 Tires, 1228 Hrs. (U2121)

USED GRAIN DRILLS

- Great Plains 12' Drill w/Pull Hitch (V1570) Alfalfa) (V9302)
- IH 620 Grain Press Drill, 21 Openers, 7" Spacing, (Ideal for Soybeans &
- Haybuster 1206 No-Til, 12', 6" Spacing, Fertilizer (V1462)
- Deere 8300 Grain Drill, 16 Double-Disc Openers, 10" Spacing, Press Wheels (U9922)

case IH

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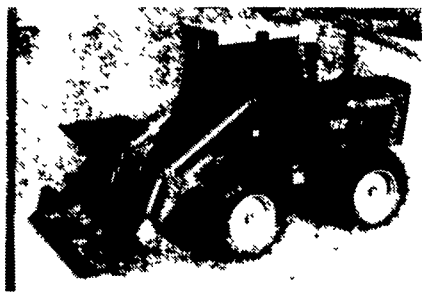
Inventory Reduction Sale

PRICES

TRACTORS



Versatile 160 4 WD, 100 HP Diesel Engine, Hydro Transmission, Loader, 3 Point Hitch, PTO (W1364)

$17,800

IH 966, Diesel, Gear, TA, 18.4x38 Tires, 1000 & 540 PTO (W1439)

$9,800

IH 6388 2+2 Tractor, '81 AC, 540 & 1000 PTO, 18.4x38 Duals, 4 Hyd. Outlets, 1455 Hours (W1681)

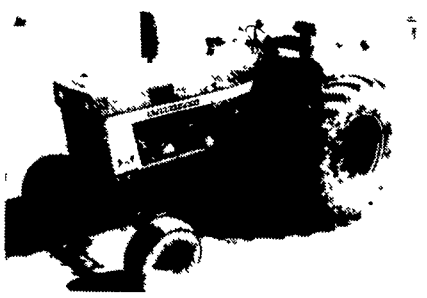
$27,500

IH 4140 Gas Skid Loader w/60" Bucket (W1562)

$5,900

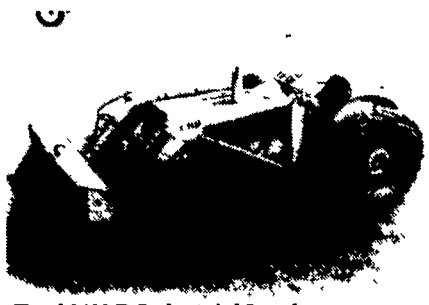
New Holland L778 Skid Loader, Hydrostatic, Gas (W9768)

$6,800



IH F1066, Diesel, Gear, T/A, 20.8x38, 540 & 1000 PT (W1715)

$12,900



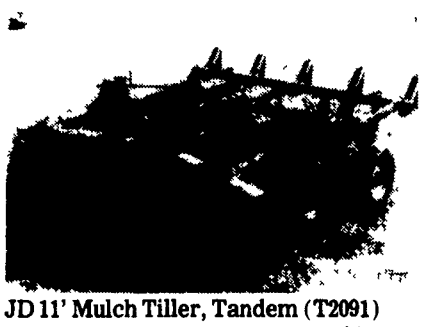
Ford 3400 D Industrial Loader

$6,500

Case 1845 Diesel Uniloader, 72" Bucket 2340 Hours, Sharp (W2153)

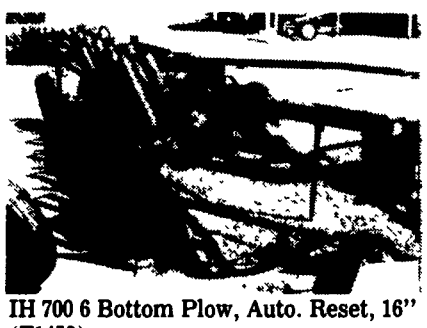
$10,500

PLOWS



JD 11' Mulch Tiller, Tandem (T2091)

$2,500

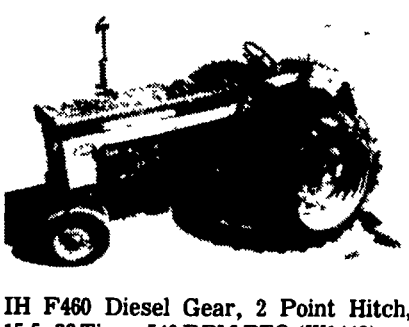


IH 700 6 Bottom Plow, Auto. Reset, 16" (T1459)

$1,875

IH F706 w/Fast Hitch, Gear, T/A, Diesel, 540 & 1000 PTO, 16.9x38 Tires 90% (W1736)

$5,900



IH F460 Diesel Gear, 2 Point Hitch, 15.5x38 Tires, 540 RPM PTO (W1446)

$2,850

IH 55 Chisel, 11 Shank, Spring Trip, Depth Gauge Wheels (T9796)

$1,575

IH 55 Chisel, 3 Pt. 9 Shank (T1434)

$1,275

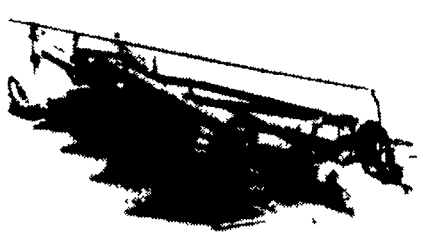
Landoll 15 Shank Slicer Chisel Plow (T1960)

$7,500

USED GRAIN

Deere 8300 Grain Drill, 16 Double-Disc Openers, 10" Spacing, Press Wheels (U9922) Was $4,000

$3,500

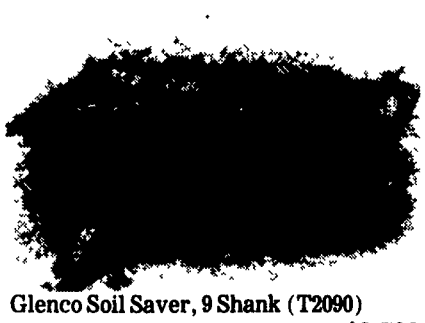


IH 540 Plow, 4F-16", Shifting Hitch, Semi-Mount (T1851)

$1,275

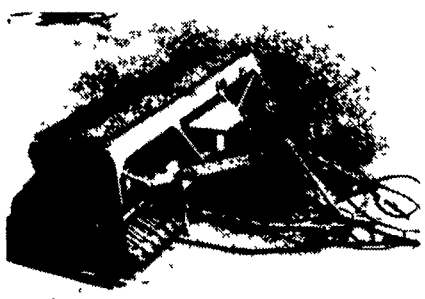
White Model 548 Plow, 6F, 18", On-Land Hitch, Automatic Reset (9927)

$4,900



Glenco Soil Saver, 9 Shank (T2090)

$2,700



Haybuster, 1206 No-Til, 12'6" Spacing, Fertilizer (V1462) Was $4,800

$3,800

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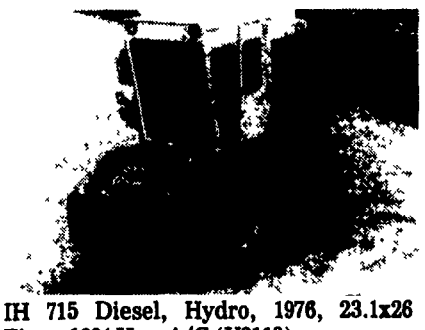
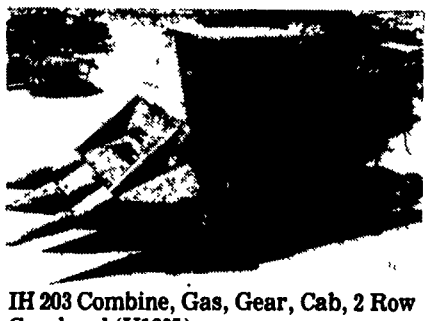
COMBINES



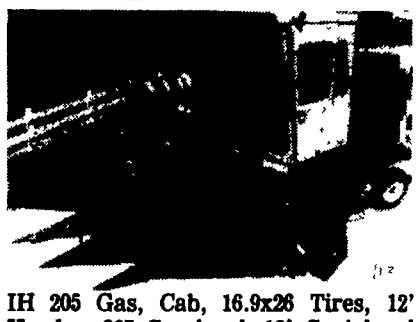
IH 715 Diesel, Hydro, 1976, 23.1x26 Tires, 1224 Hrs. A/C (U2113)

$10,800



IH 203 Combine, Gas, Gear, Cab, 2 Row Cornhead (U1205)

$3,300



IH 205 Gas, Cab, 16.9x26 Tires, 12' Header, 227 Cornhead, 12' Grainhead (U1132)

$3,300

New Idea Uni-Harvester, Model 705 Tractor, Diesel Model 767 Super-Chopper, Model 768 Wide/Narrow, 3 Row Head (U1285)

$9,800

IH 1480 AWD, Hydro, A/C, Flow Grip Tires (U2034)

$35,000

MF 510 Diesel, Gear, A/C, Grainsaver, 18.4x26 Tires (U1995)

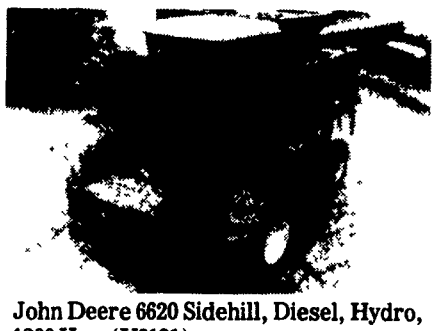
$10,200

MF 510 Diesel, Gear, 18.4x26 Tires AC (U1992)

$9,500

IH 715 Diesel, Hydro, 1976, 1100 Hrs., 23.1x26 Tires (U1961)

$13,900



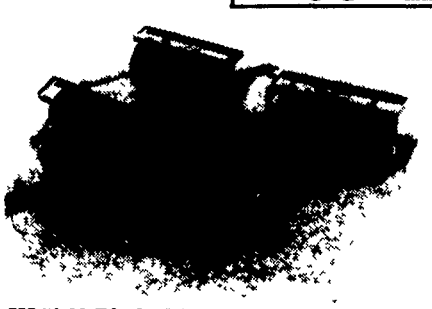
John Deere 6620 Sidehill, Diesel, Hydro, 1200 Hrs. (U2121)

$48,000

Brillion 12' Cultimulcher

$2,800

DISC HARROWS

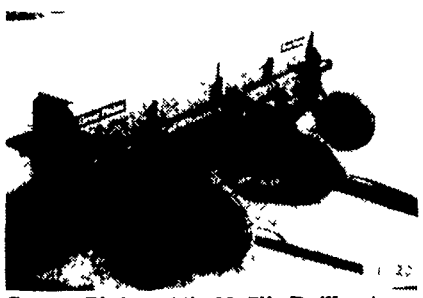


IH 7' 28 Blade Disc, 6½" Spc., Size 15" Frt. & 16" RR (T1676)

IH 501 14' Tandem Disc, Spcg. 10½" & 10" Size Frt. 19" & RR 22", Cyl. & Hoses (T1824)

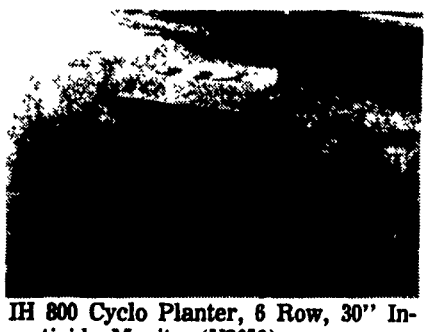
$2,475

DRILLS AND PLANTERS



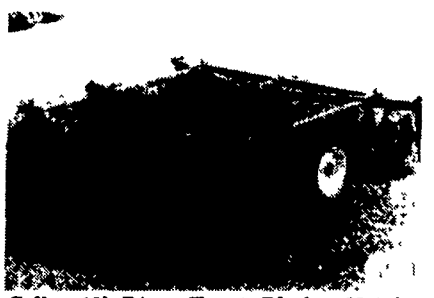
Great Plains 14' 23x7" Drill, Acre Meter, 3 pt. w/Pull Hitch, Depth Gauge Wheels, "V" Press Wheels (V1726)

$6,850



IH 800 Cyclo Planter, 6 Row, 30" Insecticide, Monitor (V2050)

$6,950



Colby 12' Disc, Front Blades Notch, Spcg. 7" Frt. & 7½" RR, Blades 17" Frt. 18" RR (T1769)

$750

Athens 131 Flex-Frame Disc, 14', 9½" Spacing (T1556)

$2,175

AC 600 6 Row No-Till Planter w/Gandy Appl., Cyl. & Hoses, Dry Fert., Monitor (V9376)

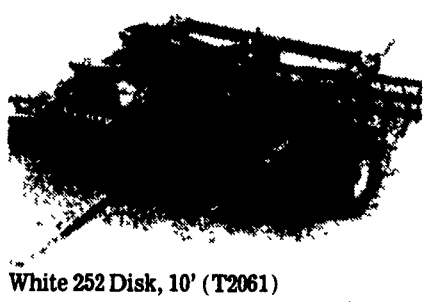
$3,900

IH #10 7x16 Grain Drill, Fert. Seed Box, Grass Seed Attach. (V1752) Was $1,500

$1,200

John Deere 330 Disc, 20' Flexwing Tandem, Blades - 25" Front, 22" Rear (T1950)

$4,900



White 252 Disk, 10' (T2061)

$1,475

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- B10 AC Garden Tractor w/Mower **$595**
- 8 H.P. Jacobsen Demo Riding Tractor w/Mower **$1,495**
- Mighty Mac Chipper Shredder **$395**
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NEW EQUIPMENT SPECIAL
BCS Rear Tine Tillers- Easily convert to accept other attachments.
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BACKHOE LOADERS
JD 310A, 1979, Tag 1936 ..... $19,000

CRAWLER DOZERS
JD 350B, Canopy, 6 Way Blade, New Undercarriage, Tag 5039 .. $15,500
JD 450, 6 Way Blade, No Rops, Tag 5108 ..... $15,000

SKID STEER LOADERS
Bobcat 610 60" Bucket, Floats, No Rops, Tag 5114 ..... $4,000
Bobcat 943 w/78" Bucket 219 Hrs., Tag 7179 ..... $27,500
Bobcat 975 w/84" Bucket 122 Hrs., Tag. 7256 ..... $33,000

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N.H. OD100 DISC (Like New)
$7,450 1 Week Only

N.H. #8 Crop Carriers
Farmall M Tractor
N.H. 425 Loader
N.H. 775 Loader w/Deutz Diesel
N.H. 269 Baler w/SS
N.H. 273 Baler w/SS & Thrower
N.H. 277 Baler w/Thrower
N.H. 310 Baler w/Engine
N.I. 10 Ton Spreader w/Upper Beater
N.H. 469 Haybine
(2) N.H. 480 Haybines
N.H. OD100 Disc Harrow
N.H. 667 Tank Spreader

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Owatonna Mustang 345 Skid Loader, Like New
NI 214 Spreader $500
New BushHog 12 Ft. Disk Harrow
Owatonna Mustang 330 Skid Loader SOLD
Owatonna Mustang 1700 Skid Loader SOLD
Owatonna Mustang 332 Skid Loader
Bobcat 500 Skid Loader w/Bucket & Manure Fork
Thomas Skid Loader
Sauder Snow Plow For Tractor

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NEW EQUIPMENT SPECIALS
JD 337 Baler, $7,675
JD 716A Forage Wagon, w/High Sides & Top, less running gear, $6,450
NH #8 Forage Wagon w/234 Running Gear, $5,000
JD 1600 Spring Reset 4 Bottom Plow $4,700
JD 235 Disk Harrow, 17'1"
JD 215 Disk Harrow, 12
JD 2950, 2WD Tractor
JD 4250, 2WD Tractor
NH L250 Skid Steer Loader
NH L455 Skid Steer Loader

USED EQUIPMENT
JD 4230 Tractor
MF 760 Combine w/V8 Engine, 6RN, 17' Grain Platform $24,000
JD 7720 Combine 4WD
IH 1026D, Hydro, 112 HP w/Loader $7,000
IH 2424 Tractor w/Loader, $3,800
JD 1020 Tractor, Gas w/47 JD Loader, $5,200
Yanmar 165 D 16 HP Tractor, 4WD, Turf Tires, Front Blade, Less Than 200 Hrs., $5,700
Kubota L245 Tractor, 2 WD w/Loader, $4,000
JD 6 Cyl. Gasoline Power Unit, Just Overhauled, $2,000
Century 6R Sprayer, 3 Pth, $850
Cub LoBoys w/Implements, $1,200 & Up
JD 444 Corn Head, $4,500
NH 495 Haybine, 12', $4,500
Kuhn GMD66 6 Disc Mower, $2,500
JD 7000, 6R Cons. Planter, Dry Fert.

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IH 37 Baler
NH 310 Baler
NH 315 SS Baler Exc.
NH 56 Rake
Butler Oswalt 1830 Ensilmixer
Butler 280 Ensilmixer Stainless Steel Lined
NH 679 Spreader w/Hyd End Gate & Top Beater
NH 770 Harvester w/Electric Control.
NH 467 Haybine
JD 7000 Corn Planter 6 Row Narrow w/Monitor
Gehl 99 Blower w/High Thrower
NH 28 Blower

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(1) 605 D Baler (Used)
(2) 107 No-Til Drills (New)
(1) R8A Single Rake, Hydraulic
Vermeer 504 Super G, Heavy Duty

Vicon NEW VICON EQUIPMENT
(2) KM 321 Mower Conditioners, 10' 6"
(1) KM 281 Mower Conditioner, 9' 5"
(3) KM 241 Mower Conditioners, 7'10"
(1) OM 281 Mower Conditioner
(1) OM 241 Mower Conditioner
(2) RC 330 Tedder Rakes
(1) RS 310 Tedder
(1) RS 510 Tedder, 3 Pt. Hitch
(1) RS 610 Pull Type Tedder
(3) TS 1002 Seeder Spreaders
(3) LS 200M Sprayer, 21' Booms
(4) LS 400M Sprayer, 28' Booms
(1) LS 870M Sprayer
(3) LS 1410T Sprayer
(3) LS 1910T Sprayer
(1) LS 1410T Sprayer, Truck Mount

NEW H&S EQUIPMENT
(1) Super 7+4 Forage Box, Tandem Axles
(1) 8x18 Self Unload Bale Rack

USED EQUIPMENT
AC Forage Box
Self Propelled Solo Mist Blower, 25 Gallon

Badger JOHN DEERE HESSTON FARM EQUIPMENT

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TRACTORS	MISC. EQUIPMENT
JD 4020 P S New T&T	JD 125 Skid Loader
JD 4040 4-Post P S	JD 450 Spreader
JD 2040 w/Loader	Chromalloy Tank Spreader
JD 1[SOLD]ader	JD 244 Corn Head
JD 2640 w/15 5x38 Tires	Badger Tandem Gear Only
JD 2940 w/3000 Hrs	NH 275 Baler w/Thrower
JD M w/Equipment	JD 3940 Harvester
JD 40 w/2 Row Cult	JD 7000 4RW Planter
Long 360 Diesel	JD 894 Rake
Farmall Cub w/Mower Fast Hitch	Taylorway 10' Chisel Plow
Ferguson TO-30	Woods RM59 Mower
White 2 70 w/Roll Bar	

NEW SPREADERS
JD-34 Spreader- 150 Bu. $2,975.00
JD-450 Hydra Push $4,995.00
Badger-#3260- 260 Bu. $4,500.00
Badger #3210- 220 Bu. $3,995.00

OTHER NEW EQUIPMENT SPECIALS
Badger-BN 725 Snowblower ... $1,595.00
Ber-Vac Snowblower $1,495.00
Badger Weigher Mixer $7,500.00
Little Giant 46' Elevator $2,750.00

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JD 4010; JD 3010
IH 1586, $12,500, cab, duals
IH 4586, $11,500, 4 WD, duals
IH 4786, $22,500, 4 WD, duals

COMBINES
JD 8820, 4 WD, 1981, $55,000, 222 flex
JD 8820, 4 WD, 1980, $47,000, 220 flex
JD 8820, 4 WD, 1979, $40,000, 222 flex
JD 7720, 4 WD, 1983, $55,000, 220 flex
AC G, diesel, both heads, 1971, $5,500
MF 750 1976, hydro, 18', $10,000
MF 750 1976, hydro, $6,000
Set of tracks to fit a JD 6600 Combine, $2,500

IMPLEMENTS
New Holland 520 spreader, loaded, used 2 days, $4,900
IH 5 shank V-ripper, gauge wheels, $1,700
Miland 10'6" offset disk, like new, $3,900
2 JD 1450, 6-16" plows, $2,500 each
JD 245, 7-16" on land, $2,500
A-C 8-16" plow on land, $2,500
IH 490, 30' disk, good, $7,500

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GUARANTEED QUALITY TRACTORS

JD 4840, Cab, Duals, 1983 ... $23,000
JD 4640, Cab, Duals, QR $20,000
JD 4240, 4 WD, Cab, QR, Nice $18,500
JD 4240 w/Cab, 4WDr, QR ... $15,500
JD 2350 Dsl, new, ... $13,000
JD 4230, 4 Post, QR $8,000
JD 2120 w/145 ldr., nice $7,200
JD 4520 SR, 2900 Hrs. $6,800
JD 4020 Dsl., WF, Sharp $5,500
MF 235 Dsl., 1200 Hrs. $5,000
JD 2510 [SOLD] Tractor, NF, Nice . $3,000
JD 148 Loader w/Valve. $2,250
JD 60, Fair Cond. $950
JD 830 S[SOLD]ndrower $875
JD 13 Dis. Grain Drill, Nice $650
Farmall M Tractor $600
JD Weights. ..... Half Price
Zimmerman Elevators & Wagon Gears
Farmco Metal Feeders & Bale Bodies
Steel Gates & Farmer Boy Bins
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COMBINES
JD 1975, 7700 w/215 Flex Head
JD 6620 w/643 Corn Head & 216 Flex Platform
JD 7700 Hydro, Rotary Screen, 15 ft. Platform, 1971
JD 7720, 1400 hrs.
JD 15' Rigid Platform
JD 643 CH 6 R Narrow Old Style
JD 216 Flex Head

TRACTORS
JD 4020 Dsl., WF
IH Farmall H w/Loader
Deutz DX110, Cab, Air, Sharp, 1980
Ford 8N

TILLAGE
IH 18½' Field Cultivator

PLANTING EQUIP.
AC 330 4 R Planter
JD 1240 4 R Plate Planter
JD 1440 4 R No-Till Planter
JD 7000, 4R
JD 7000, 8RN No-Till Liq. Fert.

MISC.
JD 6½ Ft. Rear Blade
JD 346 Wire Tie Baler
IH 435 Baler
NH 488 Mower Conditioner
Woods 214 Mower

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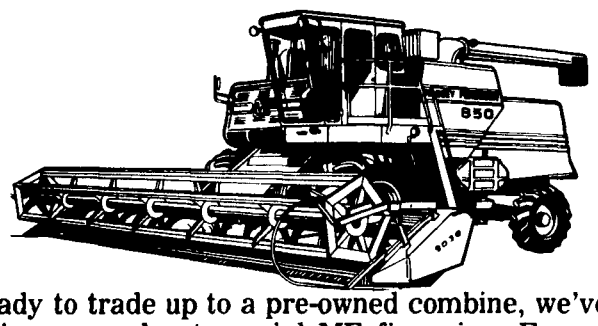


Save up to 25%

on 1987 model combines

Put the savings of early buying to work for you Order a 1987 model Massey 850 to 860 combine by December 20th, and you could enjoy savings of up to 25% or more off list price

Plus, take your choice of

- Low 8 9% financing, or
- Waiver till July 1 1987, for grain units, or Sept 1, 1987, for corn/bean units, or
- Additional discounts for cash deals!

Buy early and save big — but hurry! These special factory-direct savings end December 31st

See us for full details

If you're ready to trade up to a pre-owned combine, we've got a combine and a very special offer for you. Come in now and get special MF financing. For cash/no-trade deals we can even offer some additional discounts. See us for full details before the year ends — and these offers end.

10% OFF THESE PRICES ON ALL USED COMBINES, TRACTORS & EQUIPMENT...CASH & CARRY

USED COMBINES

1984 MF 850 Hydro with 9115 Floating 15 Ft. Grain Head and 1163 Corn Head	$58,000
1982 MF 850 Gear Drive	$29,000
1981 MF 850 Hydro	$34,000
1980 MF 550 Hydro	$15,000
1980 MF 750 Gear Drive	$24,000
1979 MF 550 Hydro	$18,000
1978 MF 760 Hydro	$17,000
1978 MF 760 Hydro	$15,000
1978 MF 750 Hydro	$16,000
1977 MF 760 Hydro	$18,000
1977 MF 760 Hydro	$19,000
1977 Gleaner "M"	$16,000
1976 MF 760 Hydro	$15,000
1976 MF 760 Hydro	$16,000
1975 MF 750 Gear Drive	$12,000
1975 MF 750 Hydro	$14,000
1974 MF 760 Hydro	$12,000
1974 MF 750 Hydro	$8,500
1972 MF 510 Gear Drive	$6,500
1969 MF 300 Gas	$4,000
1969 MF 300 Gas	$2,700
1969 MF 410 Diesel	$5,000
1966 MF 510 Diesel	$2,500
1969 John Deere 6600	$4,500
1975 IH 615 Hydro	$4,500
IH 315 Hydro	$3,500
C II Gleaner	$4,000
Like New 1144 Corn Head	$5,500
1163 Corn Head	$5,900
JD 215 Flex Head	$4,800

USED EQUIPMENT

Tye 10 Ft. No-Till Grain Drill	$9,000
MF 724 260 Bu. Manure Spreader	$6,100
Glenco 12 Ft. Transport Disc	$6,200
Glenco 9 Tooth Soil Saver	$5,900
Glenco 7 Tooth Soil Saver	$4,900
MF 351 19½ ft. Soil Finisher	$6,100
Landoll 10 ft. Soil Finisher	$3,200
John Deere 310 Disc Harrow	$3,200
Brillion 11 Ft. Cultipacker	$700
Brady 6 Ft. Flail Chopper	$2,500
Shaver Post Driver	$1,850
Danuser Post Hole Digger	$640
Danuser Wood Splitter	$780
MF 880 Hyd. Reset 6-16 Plow	$4,650
MF 345 Spring Reset 3-16 Plow	$2,500
MF 82 Spring Trip Plow	$1,200
MF 66 Spring Trip Plow	$450
Ford 10 ft. 3 pt. Chisel Plow	$1,200
Yetter 15 ft. Rotary Hoe	$1,500
MF 820 Hyd. 19 ft. Wing Disc	$8,500
MF 233 10 ft. Disc Harrow	$4,100
MF 124 Baler	$1,500
MF 260 Harvester w/2 Row Corn Head	$2,500
NH 717 Harvester w/1 Row Corn Head	$800
MF 41 3 pt. Sickle Bar Mower	$2,400
MF 925 Haybine	$1,500
EZ Trail 6 Ton Running Gear	$550
15 Ton EZ Trail Wagon With 450 Bu. Gravity Bed	$4,200
EZ 475 Bu. Self Unloading Grain Cart	$6,400

DEMO & RENTAL TRACTORS

MF 3545, 125 HP	$23,500
MF 670, 55 HP	$19,700
MF 240, 34 HP	$8,200
MF 1020, 17 HP	$5,400
MF 1010, 13 HP	$4,900

1980 Uni System, Only 1200 Hrs.

801 4 Wheel Drive Unit	$26,000
818 Grain Combine	$6,000
840 Feeder House	$2,000
844N 4 Row 30" Corn Head	$4,500
767 Harvester	$3,300
774 4 Row 30" Harvester Head	$2,900
766 Hay Pick Up	$1,000
Buy Complete Machine On Sale Days And Receive A Big Discount	$45,700

USED TRACTORS

MF 698	$14,500
MF 1155 w/Duals	$10,000
MF 1155	$7,900
MF 1150	$5,500
MF Super 90	$4,500
MF 180	$3,500
MF 178	$3,400
MF 178	$2,200
MF 50	$2,200
MF 1655	$2,000
MH Pony	$1,250
MF 165 On Steel	$2,500
MH 444	$1,000
IH 1206	$6,500
IH 574	$5,200
Farmall "H"	$500
Ford 8000	$5,500
Ford County 1164	$6,800
Ford 9W	$2,000
Ford 960	$2,100
AC 180	$4,900

Our Thanks To Everyone Who Helped Make 1986 A Successful Year. We Sold 16 New Combines In 1986, Including: (4) 550's, (5) 850's & (7) 860's. We Sold 36 New Tractors In 1986, Including: (9) 16-30 HP, (11) 40 HP, (9) 50-60 HP, (4) 70-80 HP, (1) 100 HP, (1) 120 HP & (1) 300 HP.
Thanks For Your Patronage

MF MASTER CS CERTIFIED SERVICE

SERVICE SPECIAL

Farm Equipment Does Not Break Down When You Are Not Using It... But That's The Best Time To Repair It!

10% DISCOUNT

On Parts Used On Major Overhauls Over $500 During The Month Of January, 1987

SCHEDULE YOURS NOW!

MF Massey Ferguson

M.M. WEAVER & SONS, INC.

Leola, PA 17540 Phone: (717) 656-2321

Located 4 miles West of New Holland on Rt 23, 1½ miles Northeast of Leola on the No Groffdale Rd , 1 mile on the right, opposite Groffdale Mennonite Church

51st ANNIVERSARY

SALES DAYS

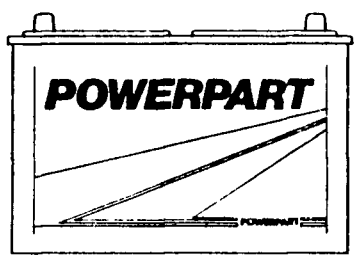
■ PARTS ■ NEW EQUIPMENT ■ GOOD USED EQUIPMENT

Dec. 29, 30 & 31, 1986; Jan. 2 thru 16, 1987

Mon. thru Fri. 7 A.M. to 5 P.M.; Sat. 7 A.M. to 12 Noon
Closed Dec. 25 and Jan. 1
All Items Subject To Availability

WINTER SALE ITEMS

NEW! Powerpart Batteries



Check Your Battery Needs Here And SAVE!

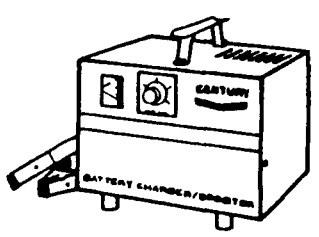
BATTERIES & ACCESSORIES

- 60 Mo. Group Size 27, 12V - For Diesel Power (630 Cold Cranking)
  List $70.50 SALE **$56.40**
- 72 Mo. Group Size 24, 12V - For Gas Tractors, Cars, Trucks (650 Cold Cranking)
  List $71.35 SALE **$57.10**

– All Other Batteries In Stock –

20% OFF LIST

NEW! BATTERY CHARGERS



- 6 Amp, 12 or 6 Volt, PS 901
  List $29.99 SALE **$26.99**
- 10 Amp, 12 or 6 Volt, PS903
  List $39.99 SALE **$35.99**
- 15 Amp w/100 Amp Boost, 12 or 6 Volt PS906
  List $99.99 SALE **$89.99**
- 30 Amp w/200 Amp Boost, 12 or 6 Volt, PS907
  List $129.99 SALE **$116.99**

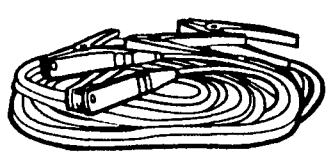
Features: Product Info/Charging Tips/ Warranty/Retail Tips

STARTING ETHER

- Starts stubborn engines in seconds
- Prolongs Battery Life
- Sprays to 65° below zero

- HOT SHOT, 11 Fl. Oz. ..... SALE 95¢ Ea.
- Case Lot $11.88 LESS 5% **$10.83**

NEW! BOOSTER CABLES



- 12 Ft., 6 Ga., PS000912
  List $15.99 SALE **$14.39**
- 16 Ft., 4 Ga., PS000914
  List $22.95 SALE **$20.66**
- 20 Ft., 4 Ga., PS000915
  List $25.95 SALE **$23.36**

Features: Product Info/Charging Tips/Retail Tips

FPPF POLAR POWER

Cold Weather Diesel Fuel Treatment
8 Fl. Oz.
Treats 60 Gal. **$3.50**

LUBRICANTS

Selling Hydraulic Fluid Right Off The Trailer!

Offering The Lowest Prices....

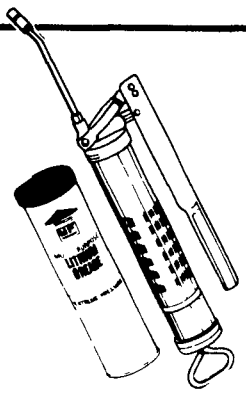
UNIVERSAL HYDRAULIC FLUID
PERMATRAN III

Universal extreme pressure transmission & hydraulic fluid.

Stock One Oil For All Your Farm Equipment

Lubricants	SALE	Cost Per Gal.
• Permatran III Oil		
2½ Gal. Container	**$11.27**	**$4.51**
• 30 Gal. Container	**$130.77**	**$4.36**
• 55 Gal. Drum	**$212.00**	**$3.85**

Buy 2 Drums & Receive An ADDITIONAL 5% DISCOUNT $3.66/Gal.

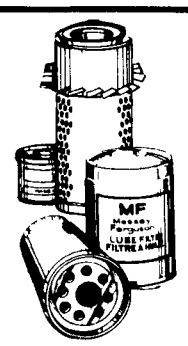


GREASE AND GREASE GUNS

	List	SALE
• Single Tubes	99¢	90¢
• 10 Pkg. Grease Cart	$9.99	$8.10
• 50 Pkg. Grease Cart	$49.95	$36.50
• 1902-684M91 Grease Hose	$3.20	$2.72

GREASE GUNS

- Lever Action, 1902-683 M92 ..... $9.15 ..... **$6.95**
- Pistol Action 1904-778 M91 ..... $15.12 ..... **$9.95**



MF FILTERS

Lube, Fuel, Air, Hydraulic

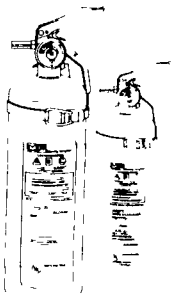
Don't fall for look-a-likes - use Massey-Ferguson filters for better & longer engine life.

LUBE & FUEL FILTERS
Buy 1 At Regular Price And
RECEIVE ONE FREE
All Other Filters 20% Less

GLENCOE CHISEL PLOW PARTS

	SALE
• 20" Coulter Disc, PS4422	**$17.55**
• LH Hardfaced Points, P6167	**$12.18**
• RH Hardfaced Points, P6168	**$12.18**

FIRE EXT G



Don't be ght
Install relia Ma
tinguishers our
pens, on t ors
made of He duf
corrosive pa ins
with positiv n-of
easy readin ater

- 20004A91, 2½ Lb. .....
- 20005A91, 5 Lb. .....
- 20005A91, 10 Lb. .....

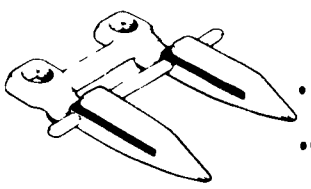
CUTTER AR

It Takes Two p Ed
Com Guar

CUTTER BAR PARTS EC

Li

- 1053-209 M1 Hart Carter Section PS 112001 ..... $1.0
- 146-503 M2 Ridgit Sections PS 412132..... $1.0
- 1904-914 M2 Powercut Section PS623011..... $1.0



- 228-392 M1 Ridgit MF Cutter ....

Do You Need W
MF Massey ...uson
POWR

CLEANING SYSTEM

Do You Spend Hours Cleaning Your Cars, Trucks, Tractors, Combines, Hog Pens, Windows, Grills...?
Let The POWERPART CLEANING SYSTEM Help You Get The Job Done.

Come Clean Today!

- MF 8500 20-109 A91, 500 L ¾ H
- MF 8600 20-111A91, 600 L 1 H.

Plus Get $45 Wo Of Cleaning Chemica

10% C
MF Powerpart ean

10% OFF ON ALL OTHER PARTS

Sold Over Counter From
Dec. 29 to Jan. 16, 1987
★ *Cash And Carry* ★

MF Massey Ferguson

M. M. WE

LEOLA, PENNA. 17540
PHONE: 717-656-2321

OPEN HOUSE

SPECIAL 1 DAY ONLY - TUESDAY, JANUARY 6, 1987

LUNCH WILL BE SERVED 11-2

Maintenance and Operation Seminars
10:30 A.M. Tractors
2:00 P.M. Combines

★ Representatives from various manufacturers will be on hand to demonstrate products and answer questions
★ Join us during Open House for Fun & Fellowship

GUISHERS

ght without protection!

Massey-Ferguson Fire Ex- your home, the barn, animal rs and combines. They're duty carbon steel with non- inside and out, and operate n-off squeeze grip; feature terproof gauges.

	List	SALE
	$21.30	$19.17
	$31.80	$28.62
	$50.15	$45.13

AR PARTS

Two p Edges To Cut Com Guards!

ECTIONS

	List	SALE
	$1.07	70¢
	$1.06	68¢
	$1.02	82¢

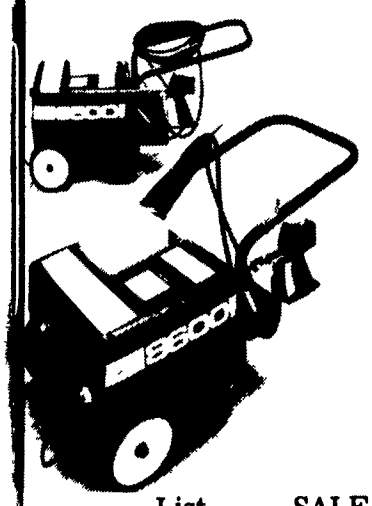
GUARDS

	List	SALE
E1 NH Haybine 925 BU 215	$6.49	$5.84
E1 MF Floating r Bar BU 231	$6.70	$6.03
	$7.75	$6.20

ed With Cleaning?

ssey uson

WERPART

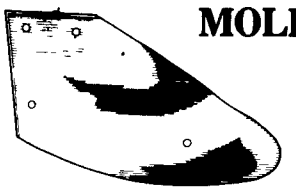


	List	SALE
¾ H.P.	$499	$399
1 H.P.	$599	$485

Wa Of MF Powerpart Cl icals FREE!

OFF
eaning Chemicals

TILLAGE PARTS SALE



MOLDBOARD PLOW PARTS

Direct Shipment From Manufacturer To Us Allows For These LOW PRICES

There Is A Difference 3 Layers Of Steel For
• LONGER LIFE • SHOCK RESISTANT • LESS CRACKING

16 INCH 4 BOLT PLOW SHARES

	O.E.M.	SALE
• 475-167 M1 Reg. Share Long	$11.25	$8.77
• 475-715 M1 Heavy Duty Short	$17.65	$9.79
• 475-716 M1 Heavy Duty Long	$20.35	$10.32

FITS MOST PLOWS

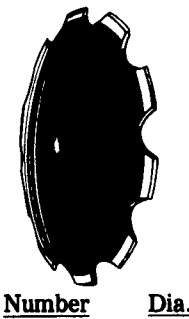
• 661-869 M91 Trashboard	$33.05	$11.62
• 660-020 M91 Shins	$17.97	$7.32

MOLDBOARDS

• 660-022 M91 14"	$100.50	$50.66
• 660-206 M91 16"	$104.50	$59.91

ALL OTHER PLOW SHARES, LANDSLIDES, SHINS AND MOLD BOARDS NOT UNDER DIRECT SHIP PROGRAM ARE 20% LESS

Plus The Best Warranty In The Industry!



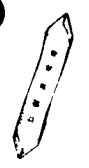
Disc Blades

- High concavity for greater draft and more soil action
- Plain and notched styles for various field conditions
- Center hole sizes available to fit non Massey-Ferguson machines

Number	Dia.	Ga.	Disc.	Shaft Sizes	SALE
• P5041033	20"	6	Plain	1 1/8" Sq. x 1¼" Sq.	$14.95
• PS045045	22"	6	Plain	1¼ Sq. x 1½ Rd.	$18.29
• PS045049	22"	¼"	Plain	1¼ Sq. x 1½ Rd.	$18.93
• PS045050	22"	¼"	Notched	1¼ Sq. x 1½ Rd.	$19.31
• PS046063	24"	¼"	Plain	1½ Sq x 1¾ Rd.	$25.61

We Have Other Sizes
Check For Your Needs And Prices

WEATHERED TWISTED CHISEL POINTS



- Heat treated, tumbled & varnished
- ½" thick for longer wear
- Fits 2¼" centers for 7/16" plow bolts

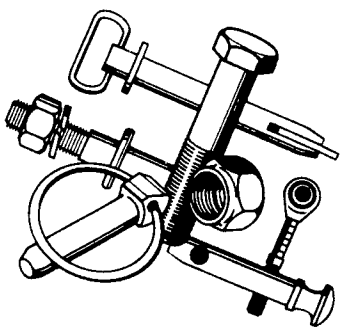
DF4995R	3x½x22 R.H.	$6.75
DF5995L	3x½x22 L.H.	$6.75

Massey Ferguson PAINT

Increase The Resale Value Of Your Machine With Massey Ferguson Paint!

HARDWARE AND HITCH PINS

Grade 5 Hardware
$1.50 Lb.



HITCH PINS w/RETAINER CHAIN

Number	Length	Dia.	List	SALE
• 30-151E91	6¼"	¾ in.	$4.73	$3.99
• 30-152E91	6¼"	7/8 in.	$6.27	$4.25

HITCH PINS w/PRESTO PIN

• 30-281E1	6¼"	¾"	$3.13	$2.75
• 30-282E1	6¼"	7/8"	$4.20	$3.75

LINCH PINS
6 For **$1.00**

POWERPART CHEMICALS

A Wide Variety Of Universal Products For Farm, Home, Industrial, Automotive, And Recreational Use.

Full Line Of Chemicals With Quality At Competitive Prices

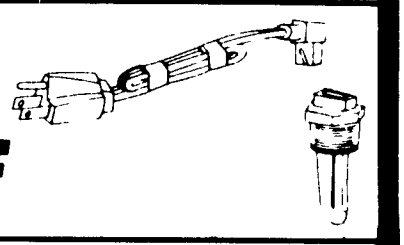
Penetrating Oil

BUY ONE AT REG. PRICE	$1.55
GET SECOND AT ½ PRICE	.78
TOTAL...	$2.33

Frees All Rusted, Frozen Or Corroded Lugs And Bolts

BLOCK HEATERS

10% OFF



VER & SONS, INC.

Located: 4 miles west of New Holland on Route 23, one and one-half miles northeast of Leola, on the North Groffdale Road, one mile on the right, opposite Groffdale Mennonite Church.

20% OFF Regular Price

10% OFF REGULAR PRICE

★ Bring Your Own Containers - Get Bulk Price

"BUY QUALITY"

QUAKER STATE MOTOR OIL

51st ANNIVERSARY

SALE

Dec. 29, 30 & 31, 1986
Jan. 2 thru 16, 1987

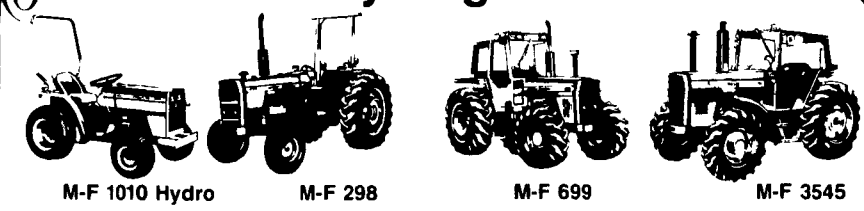
COMBINE HEADQUARTERS

up to $1200

M-F SAVINGS

up to $1200

Trim up to $1200 off our best price on Massey-Ferguson tractors



M-F 1010 Hydro M-F 298 M-F 699 M-F 3545

Now may be the best time ever to buy a new Massey-Ferguson tractor That's because when you bring in this Savings Certificate, Massey-Ferguson will give you a discount on new M-F tractors of up to $1200, depending on the model selected

- Save up to $400 on M-F Compact tractors
- Save up to $800 on M-F orchard vineyard and 200 Series tractors
- Save up to $950 on M-F 600 Series tractors
- Save up to $1200 on M-F 3500 Series tractors

Name _____
Address _____
Telephone _____
Model Number _____
Serial Number _____
_____
Customer's Signature

Offers expire January 31, 1987

Or choose low 6.9% APR M-F financing and generous factory discounts from Massey-Ferguson

Pick out your best deal on the best tractor for you And save like you could never save before

MASSEY-FERGUSON
Where farmers ideas take root

up to $1200

CERTIFICATE

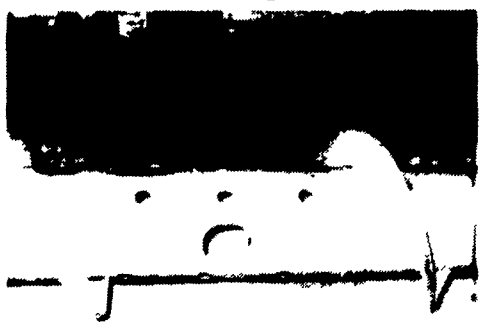
up to $1200

SCHMIDT

"HEAVY DUTY REBUILT TABLE AUGER"

Before Repair

After Repair



Damaged Or Broken Combine Table Augers Rebuilt Same As New!

No need to purchase a new auger when you can buy one that's rebuilt! Or have your auger repaired for less than one half of the new auger price!

Rebuilt augers are guaranteed to run true! "They are jig repaired."

We Can Rebuild All Makes Of Augers	Call Now For Appointment And Price Quotation To Have Your Auger Repaired

MF Massey Ferguson

M.M. WEAVER & SONS, INC.

Leola, PA 17540
(717) 656-2321

Located 4 miles West of New Holland on Route 23, 1½ miles Northeast of Leola on the North Groffdale Road, 1 mile on the right, opposite Groffdale Mennonite Church

Weaverline

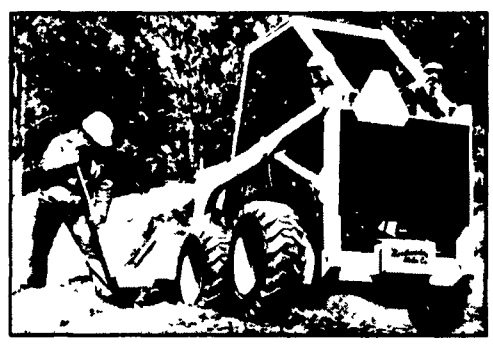
COB CORN GRATE

for M-F 750/850, 760/860 COMBINES

REPLACE THE REGULAR CORN SIEVES IN YOUR COMBINE WITH A WEAVERLINE COB CORN GRATE

- ★ Save More Cobs
- ★ Keep Out Corn Leaves And Husks
- ★ Extremely High Capacity
- ★ Simple, Rugged Design
- ★ Works Very Well On Hillsides

TOUGH, STABLE AND AFFORDABLE



NORTHWESTERN MOTOR COMPANY

SKID STEER LOADER FEATURES:

- A unique oscillating axle that smooths movement over rough terrain.
- 4-wheel drive that keeps you going.
- Dependable hydrostatic drive.
- A powerful 4-cyl. gas or diesel engine.
- A 40" wheel base for improved stability

List....$19,500

SALE $14,500

Annual
SPRING AUCTION
Monday, March 23, 1987

NEW EQUIPMENT

Hedlund Martin Scavenger Manure Spreaders
MF 1010 Tractor, 4WD
MF 1020 4WD Tractor
MF 1035 4WD Tractor
Pequea Woodsman Saw

USED EQUIPMENT

IH 666 Tractor
MF 165 gas tractor
MF 285 Tractor
Mitsubishi MT 180D, 4WD, Tractor, 18 h.p., hydro
Hardy TR500 Sprayer w/45' boom
Hardy TR500 Sprayer w/42' boom

Low Financing Available

Radio Dispatched Service
Renting skid steer loaders.
We service all makes of equipment

ABRACZINSKAS
Farm Equipment, Inc.

RD1, Catawissa, PA.
717-356-2323
(1 mile south on Route 42 on top of the hill)

MASSEY-FERGUSON
Where farmers' ideas take root.

USED FARM & LAWN EQUIPMENT

JD 4020 Tractor, Power Shift
JD 2510 Gas Tractor, Excellent
JD 750, 4WD w/Loader (Like New)
JD F930 w/60" Front Mower
(2) JD 160 Mid Mount Mowers for JD 650 & 750 Tractors
(2) JD 111 Lawn Tractors
JD 160 Lawn Tractor
JD 420 L & G Tractor w/60" Mower
JD Power-flo Collection System For 50" Mower
Parker, 5 HP Leaf Collector (Like New)
JD 38T Lawn Sweeper
JD 47, 2 Stage Snowblower for JD 318 Tractor (Like New)
JD 1032 Walkbehind Snowblower
JD 423, 6 ft. Front Mtd. Blade for JD 850, 950 & 1050 Tractors
Myers Front Blade for JD Utility Tractors
JD 59 Fork Lift for 3 pt. Hitch, or Front End Loader
JD X4 Snowmobile
JD 440 Trailfire Snowmobile
JD Liquidator (bad engine) Selling-as-is

NEW EQUIPMENT IN STOCK

JD 575 Diesel Skid Steer Loader (SAVE! This Unit Must Go)
JD 25A Flail Mower
JD 1000 2 Btm. 3 Pt. Plow
Bush Hog 5-6 ft., Rotary Cutters
Bush Hog 3126 10½' Rotary Cutter
Hardi BNC 53, 53 Gal. 3 Pt. Sprayer

SPECIAL SALE PRICED ITEMS

JD F910 w/60" Front Mower
List Price $9,504.00,
Sale Price $7,150.00
JD 48" Commercial Walk Behind Mower w/2 cyl., 16 HP, B&S Engine
List Price $3,495.00,
Sale Price $2,895.00

Good Selection Of Used L & G Equipment In Stock
Call Us For Your Needs

HARDI — JOHN DEERE

NEUHAUS'ES, INC.
32 Main St., Glen Rock, Pa. 17327
717-235-6831
1-800-222-7618

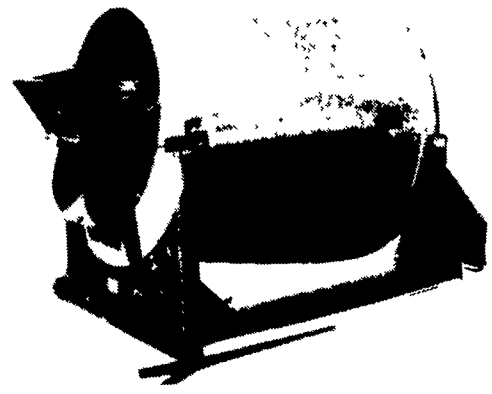
WFE — HESSTON CORPORATION

USED EQUIPMENT

Satoh 650 w/Woods Mower & Loader
Farmall H
Ford 8N
FC 250 8' Kuhn Mower Conditioner
Oliver 5-16 Plow
IH 4-16 Plow
Glencoe SS9 Soil Saver
IH 501, 12' Disk
White 281, 12' Offset
Bush Hog 5', 6 & 7' 3 pt. Rotary
Hawk Bilt 357 Tandem Spreader
NI 214 Flail Spreader
NI 323 Picker
NI 279 Cutditioner
Mohawk 13' Batwing Rotary Mower

STOLTZFUS FARM SERVICE
Cochranville, PA
215-593-2407

We Have Won The Competition Over With Our Design



Now Let Us Win You Over With Our Price

TMR Mixers By

FARMASTER

ZIMMERMAN'S FARM SERVICE Bethel, Pa. 717-933-4114

RINGTOWN FARM EQUIPMENT

NEW EQUIPMENT

1494 w/cab & PS
885, 4WD, ROPS
234, 2WD
244, 2WD
385, w/ROPS
475 disc, 17'5"
370 disc, 11'6"
800 Cyclo planters, 4R
IH 4500 Vibra Shank
IH 5100 Grain Drill, 20x6
IH 4600 Vibra Shank

USED EQUIPMENT

IH 490 Folding Disc, 24' Well Maintained
MF Model 540 Combine w/Hds Used 2 Yrs Exc Condition
IH 674 Row Crop Tractor Exc. Cond. 1900 hrs.

NH 477 Haybine
154 LoBoy w/Mower
IH 45 Baler
Case 230 Baler
IH 384
IH 1456 w/cab
IH 1256 Tractor
500 Crawler R/C
666 Farmall G, WFE
Farmall H
Farmall C
Farmall SC w/Cults.
NH 555 Skid Loader
Haines bulk bodies
Massey Harris drill 16x7
Potato planters
1R Potato Digger
JD 4400 combi w/grain head & corn head
#475 Disk 17' 5" 22" Notch Discs Used One Season
IH 710 3 Btm. Auto. Trip Plow, excel. cond.
IH forage blower
Holland transplanter
IH 4 btm. semi-mtd. plow
Haines Stone Pickers
(2) IH 234 Corn Pickers
IH 1150 Grinder-Mixer
IH 456 Corn Planters
IH 400 Cyclo Planter
JD Plateless Planter

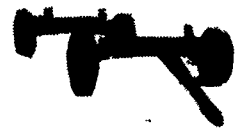
Case IH

New Cash Deals, Low Rate Financing or Waiver of Finance

RD 1, Ringtown, PA
717-889-3184
Since 1949

ZIMMERMAN

HAY TEDDER
Call For Prices



WAGON GEARS
8 Ton Gear $440
10 Ton Gear $590
12 Ton Tandem . . $895
W15"x8" Rims, 5' Tongue
5"-7" Adj. Tongue Add $30

PINTLE CHAIN

Forage Box Conv. Chain
New Holland
#8 . . . . . $242.50
Gehl 960 . . . . . $232.50
Other Makes Available Call For Prices

T-Bar Det. Chain
T-67 . . . . . $.58
T-67 Att $1.15
Steel Detachable Conveyor Chain

GEORGE M. ZIMMERMAN, INC.
Voganville Rd., Rt. 1
New Holland, PA 17557
(717) 354-9954

USED EQUIPMENT

TRACTORS
White 2-70 Tractor

SKID LOADER
NH L35

HAY TOOLS
NH 273 Baler w/Thrower
NH 276 Baler w/Thrower
NH 469 Haybine
NH 479 Haybine
Owatanna 217 Haybine, 9 Ft.
NI 290 Mowditioner

GRINDER MIXERS
NH 353
NH 354

SPREADERS
NH 676 Spreader w/Hyd Endgate
JD 465 Tank Spreader
NI 214, 3 Beater

SPRAYERS
Walsh 300 Gal.
Cent. Tractor 300 Gal.

PLANTING & TILLAGE
Brillion 14' Transport Harrow
IHC 400 4-Row, No Til
Case 7' Soil Controller
Oliver Superior No. 26 Grain Drill
JD 210 12 ft. Disk

MILLER DISK
10 Ft., 5 Inch with Leveling Cylinder
$6,350

PICKERS
WD Allis Chalmers w/NI Mtd Picker

LAWN & GARDEN
White 1610 w/42" Mower
Crown Stone Picker, 4½ Ft Wide, Hyd Driven
Cub Cadet 72 w/Mower
Cub Cadet 106 w/Front Blade & Mower

NORMAN D. CLARK & SON
Honey Grove, PA 17035
717-734-3682
Located 14 Miles South of Port Royal on Rt. 75

USED EQUIP.

JD 4630 Tractor w/Cab
JD 4440 Tractor w/Cab
JD 4020 Side Console WF, Dual Wheels
JD 4020 Tractor WF, Side Console
JD 2840 Tractor
JD 2640 Tractor
JD 1020 Tractor
JD 650 Tractor
JD 520 Tractor
JD 300 Tractor w/Loader
IHC 856 Tractor
Case 770 Tractor
JD 24T Baler w/30 Ejector
JD 7000 4R Conv. Planter w/Liq. Fert.
JD 7000 4R Conv. Planter w/Dry Fert.
JD 7000, 4R Planter w/Dry Fert.
JD 7700 Combine
JD 7700 Combine w/640 C.H. & Platform
JD 6600 Side Hill Combine w/444 Corn Head
JD 3800 Chopper
JD 38 Chopper
JD 34 Chopper
Bush Hog 160 Rotary Mower
NI #323 1 R Corn Picker
JD 510 Round Baler
JD 27 Shredder
JD 640 Rake
JD 660 Rake
JD 1217 Mower Conditioner
JD 1219 Mower Conditioner
JD 33 Manure Spreader
JD 400 Grinder Mixer
JD 660 Rake
JD 1450 5 btm. Plow
JD 1450 4 btm. Plow
JD 350 5 btm. Plow
(2) Used Hay Wagons
(1) Used Hay Wagon

ENFIELD EQUIPMENT INC.
Whiteford, MD 21160
Ph: 301-452-5252

Sales, Parts And Service For...
★ CASE UTILITY ★ GEHL ★ VICON ★ WFE
★ KUBOTA ★ HESSTON ★ SAME

TRACTORS:

Case 1190
Case 800
Case David Brown 1200
SAME Leopard 85, 4WD, with Cab Enclosure
Case 300 Wide Front, Gas
Kubota L-1500 & L-2000, Both Completely Reconditioned

SKID LOADERS

Case 1845B Skid Loader Ex. Cond., 1984 Model
Gehl 4500 & 4600
Mighty Mac Skid Loader
IH 4140 Skid Loader
IH 3300 Skid Loader
IH 3200, Very Reasonably Priced!
Case 1830 Skid Loader
Case 1845 Skid Loader

MANURE SPREADERS

Hesston 1510 Tank Spreader
Knight 250 Box Spreader

BACKHOES

(2) Case 580C Backhoes w/Roll Frame

DISKS

8 Ft. 3 Pt. Pittsburg
18 Ft. Oliver
12 Ft. Massey Ferguson

HARVESTERS

IH 550
Case 300's—Several In Stock
(3) Gehl 99 Blowers
Gehl CB400 Harvester
(2) Gehl CB600 Harvesters with Assorted 2-Row Heads And Pickups
NH 38 Flail Chopper
NI 329 Super Sheller
MF 260 Harvester
Hesston 3-Row Narrow Cornhead
IH 205 Combine

LAWN & GARDEN

IH Cub in excellent condition with 1 bottom plow, set of cultivators & snow plow. New Rubber
Cub Cadet 125
Case 444 w/44" Deck & Snow Blade
Case 220 w/38" Mower And Snow Blower
Case 220 w/38" Mower
Case 646 w/Loader—Exc. Cond.
Gravely 812 w/Mower, Rototiller, Snow Blower & Blade

STOUFFER BROS. INC.

1056 Lincoln Way West, Chambersburg, Pa
Phone 717-263-8424

1 FARM EQUIPMENT

Ford 555 TLB
Ford 655, 4WD, TLB
Ford 8700, Must be seen to be appreciated
TW35, cab & air, nice
TW30, dual power, cab
6710 4WD, cab
6610, canopy, like new
4610 4WD, orchard
2910 4WD, like new
1910 diesel w/roll bar
JD 2040 w/loader, low hrs., new paint
Kubota M7950, 4WD, Special Price
Kubota 4150 4WD
Ford 550 TLB
Ford 4500 TLB
Case 580 TLB
MF 202D w/loader
JD 310 TLB
Warner Swasey Fork-lift, 21' mast
Ford Forklift, 8,000 lb. capacity
Yale Forklift, 3,000 lb.
JD crawler 350 w/ldr.
Case 310 crawler loader
Int. TD6 crawler
25 Used Lawn & Garden

STRALEY FARM SUPPLY, INC.
1760 East Canal Rd.,
Dover, PA. 17315-3699
(717)292-2631 or
(717)292-4443

HAPPY NEW YEAR

USED EQUIPMENT
Deutz 8006 Used Tractor, Ex. Cond.
MF 230 1400 Hours, Excellent Condition
XT 190D AC Tractor, Real Nice
NH Model 90 Bale Handler
AC 4 bottom SC plow
IH 400 Cyclo 4 Row Planter w/No-Tills Yetter
IH 400 Cyclo 6 Row Planter
Cagle 750 Gal. Tandem Axle Field Sprayer, Monitor and Fully Equipped
LKS Combine w/Grain And 630 Corn Head
MF 205 Combine w/240 Corn Head

SPECIAL SALE
KUHN MOWERS RAKES AND TEDDERS
Call For Special Year End Price

Planters w/Dry Fertilizer
No-Tills, Insecticide Units. Complete
Plate Planter, One Only At $6,495

COMPARE OUR PRICES ON WOODS MOWERS

B. EQUIP. INC.

DEUTZ ALLIS
8422 Wayne Highway
Waynesboro, Pa. 17268
717-762-3193

New A & C Models Now In Stock
Tractors w/Cabs, 2WD & 4WD
Starting At $7,800 ea.

TRACTORS

AC 7030	AC 7010D	AC XT190D	IH 806
AC 7060	AC 200	AC 180D	JD 2010
AC 7040D	AC 210	AC D19D	MF 65G
AC 7045D	Oliver Super 77	AC D14	Case 1490
AC 7050D	AC 7000D	AC 5050D	JD 450 Crawler
AC 7020D		AC 5040D	Oliver 1650D

Used Hay Wagons	New Field Cultivators Model 1200, 10½ to 16½ Ft. From $1,100 to $2,500	Used Gehl Mower Conditioner

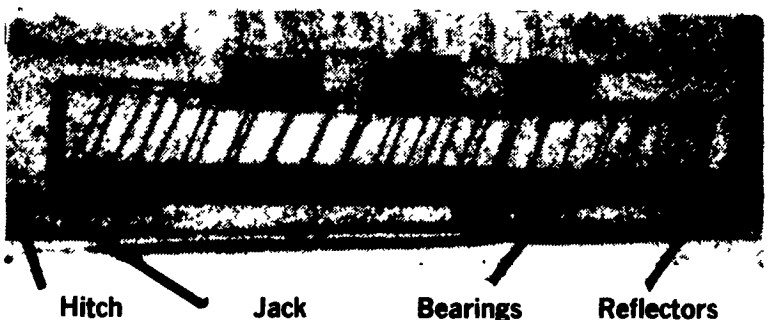
USED COMBINES (LIKE NEW)
A C Models G-C-N-L-F
These Combines are in Excellent Condition

NI 706 UNI-SYSTEM, HYDRO DRIVE w/717 COMBINE, CORNHEAD & GRAINHEAD

GRUMELLI FARM SERVICE

bobcat
Quarryville, Pa.
717-786-7318
DEUTZ ALLIS

ALL PURPOSE FEED TRAILER All Metal Construction



Hitch Slide away hitch to prevent cattle from injury
Jack Fold up bulldog for easy hookups
Bearings Tapered roller bearings for long lasting & easy towing
Reflectors SMV sign for safe towing on highways

* Length 24' & 30' + hitch
* Cattle can eat out of all 4 sides
* For feeding in pasture or barnyard
* Suitable for feeding cows, heifers, steers etc.
* Ideal for feeding from bulk silo or Ag Bag
* Easy to tow behind pickup or tractor.

Priced At
24'–$695
30'–$825

LEROY ZIMMERMAN

RD 2, Box 148, Ephrata, PA 17522
717-859-3869

USED EQUIPMENT

TRACTORS & SKID STEER LOADERS

JD 2640	Case 580 C Loader
Case 2090 Cab	IH 4130 Skid Steer
Case 2290 Cab	Case 1740 Uniloader
IH 1066 Cab	Bush Hog 3400 Loader

MISC. EQUIPMENT

763 Row Crop	5' 3 Pt. Rototiller
838 Uni Husker	JD-AC-IH Corn Planters
Bush Hog 10' Mower	IH Grain Drill
Gehl 1580 Blower	NH 8 Forage Box
Mechanical Trans-planter	OMC 217 Mower Conditioner
IH 241 Round Baler	Gehl HA900 Hay Head
Gehl CB600 Harvester	

MANURE SPREADERS
NI 224 NI 214 NH 675
NH 790 Badger 1500 Gal. Tank

WAIVER OF INTEREST ON USED TRACTORS UNTIL JUNE 1, 1987

SEASON SPECIALS
New N.I. 272 Cut-ditioner, 7 Ft. Cut, Ideal for Corn Stalks $4,900
Gehl Bale Handler $1,700
N.I. 484 Round Baler $8,300

A.L. HERR & BRO.

PARK AVE., QUARRYVILLE, PA. 17566
PHONE: 717-786-3521

BUSH-HOG NEW IDEA GEHL Gets into your system case HESSTON MARTIN

USED EQUIPMENT

TRACTORS

JD 8450, low hrs., w/Folding JD 335 Disk	
JD 4630 w/duals, PS, engine overhauled	$17,000
JD 2940, 1275 hrs.	$15,000
JD A w/227 Picker	$ 1,400
IH 766	Coming In
IH 1486 w/Duals	$15,900
IHC w/Equip.	$1,900
IH 350 w/Loader	$1,700
Ford 3000, reconditioned	$ 5,000
Ford 6000	$ 2,900
MF 1105 w/Cab	$12,500
MF 165 Dsl.	$ 4,900
IH 240 w/Loader	Coming In
AC B w/Attachments	$1,200
JD 2010, need engine work	$1,200
AC D14	$ 2,500
Long 450 Dsl.	$4,500

COMBINES

JD 6620 Side Hill w/643 C.H. & 215 Flex, Reconditioned	$53,000
JD 6620 Side Hill	$37,000
JD 444 Corn Head	$ 4,500
JD 443 Corn Head	$ 5,500
JD 215 Flex Head	$ 4,500
JD 215 Rigid Head	$ 3,500

PLANTERS

JD 6R Cons., Dry Fertilizer	$ 7,900
JD 4 Row Consv. Liquid	$ 5,400
JD 4R Cons. w/Dry Fert.	$ 5,900
(4) JD 6R Consv.	Starting at $ 7,500
IH 400, 4R.	$ 1,200

TILLAGE

JD BWA 16' Wing Disk	$ 2,200
JD 1600 Pull Type 10' Chisel Plow	$ 1,900
IH 370 12' Disk.	$ 1,800
IH 11' Pull Type Chisel Plow	$ 700
Assortment of JD & Ford 2-3 Bottom Plows	

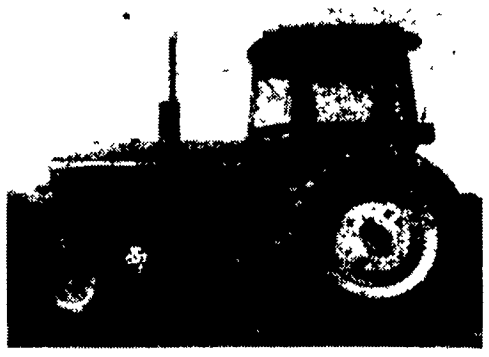
HAY & HARVESTING

JD 1219 Mower Conditioner	$ 5,900
JD 336 Baler	$ 4,500
JD 14T Baler	$ 1,200
Gehl 1500 Round Baler	$ 3,500
NH 851 Round Baler	$ 4,500
NH 276 Baler	$ 2,500
JD 750 Grinder Mixer	$ 3,500
JD 894 Rake	$ 500
NH 469 Haybine	$ 1,000
IH 720 Harvester w/2 Heads	$ 3,500
Ford Sickle Mower	$ 400
(2) JD 965 Wagons w/Hay Racks	$ 1,200 each

TOBIAS EQUIPMENT CO., INC.

JOHN DEERE
Halifax, PA 17032
Phone: 717-362-3132

LORLIN TRACTOR SALES



JD 4230
Cab, QR, 3500 Hrs., Diff-Lock, Dual Hyd., Solid
$8,900

JD 830 Diesel, 75 HP	$3,800
JD 3020, Diesel, WFE.	$4,900
JD 2030, Dsl, High-Low	$5,500
IH 1466 Fender, Nice	$6,500
JD 2440, 2400 Hrs., Nice.	$7,900
JD 4430 Cab, PS	$9,800

717-532-8926
Can Finance No Sunday Calls

BHM FARM EQUIPMENT, INC

Annville, PA
717-867-2211

NEW HOLLAND

NEW EQUIPMENT
NH 555 D. Skid Loader
NH 785 D. Skid Loader
NH 307 Slurry Spreader
NH 514 Manure Spreader
NH [SOLD] Loader
NH 304 Slurry Spreader
NH 900 Forage Harvester

USED EQUIPMENT
NH 276 Baler & Thrower
NH #30 Blower
NH 256 Hay rake w/Rubber Teeth
NH 791 Manure Spreader
NH 495 Haybine
NH 354 Grinder Mixer

DEUTZ ALLIS

Tanaka Chain Saws & Weed Cutters

NEW EQUIPMENT
Deutz Allis 6275, 2 WD w/ROPS
AC 1200, 16½' Field Cultivator $2,450
Deutz Allis 6265 w/Cab
Deutz Allis 6070, 2 WD
Deutz Allis 6080, 2 WD

USED EQUIPMENT

IH 915 Combine w/763 Corn Head & 810 Grain Header, $8,500

1976 Gleaner F Combine w/430 C.H. & 13' Grain Platform, Excellent Condition

Oliver 1850, 4 WD Tractor
Farmall 504 Tractor
AC 5050 Tractor, 226 hrs., $7,950
AC CA Tractor
AC B Tractor w/Cultivator
IH 584 Utility
IH 350 Utility w/#34 Loader
IH C Tractor
IH M Tractor w/IH 2MH Corn Picker, $1,500
Farmall 350 Tractor
Newfield 465 Tractor
Case Stalk Shredder
JD 336 Baler w/#30 Thrower
JD 24T Baler & Thrower for parts, $350
IH 46 Baler
IH 56 Blower
Gehl Hi Throw Blower
AC Pitmanless 3 PTH Mower
IH 51 Forage Wagon
JD 4Fx16 Trailing Plow
MF#33, 17x7 Grain Drill
JD Wheel Rake
NI 218 Spreader

WANTED
Patz Liquidvator
FOR SALE
500' of Patz Gutter Chain.
Hesston Liquid Spreader, Self Loading
Case 310 Dsl. Track Loader
304-263-9801

1971 Farmall Cub w/42" Woods Rotary, Excellent Condition
$2,495
MANOR EQUIPMENT, INC.
Sinking Spring, PA
215/678-0828

SHULER EQUIPMENT SALES
RD #1 Box 228
Shuler Road
Shermansdale, Pa. 17090
717-582-4365 anytime
ACRES OF USED AND RECONDITIONED FARM EQUIPMENT AND TRACTORS
Also
ACRES OF USED EQUIPMENT AND TRACTOR PARTS.
WE WILL BUY OR TRADE YOUR USED EQUIPMENT IN ANY CONDITION.

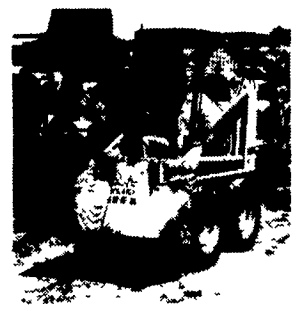
JD 4020 Diesel, Power Shift, good paint $4,200
JD 3010 Gas, SR $2,500
MF 65 Gas, PS, 3 Pt. $2,400
JD 2020 utility, gas, high/low $3,800
NH 358 grinder mixer, like new. SOLD $6,100
HORNING'S FARM MACHINERY
717-733-7408

USED BELTING MATERIAL
RUBBER MATS FOR
Comfort Stalls, Free Stalls
Horse Stalls, Horse and Cattle Trailers,
Hog Houses
Paul N. Brubacher
215-286-5298

Binkley & Hurst Bros. Welcome You In 1987 To See Us For All Your Case IH Machinery Needs

CASE UNILOADERS ARE GREATLY EFFICIENT ALL AROUND THE FARM w/POWER-IN-HAND COMMAND. They Also Have Many Uses For Construction With Backhoe Attachment, Etc.

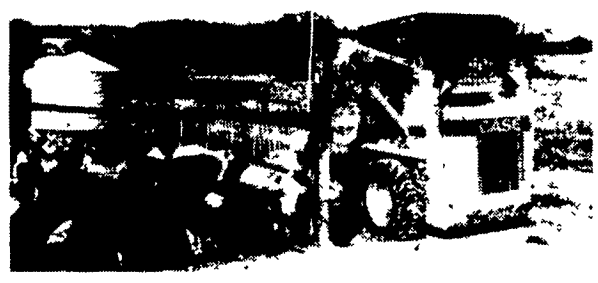
Case Uniloader Skid Steers turn in their own length.



MODEL 1816C
16 H.P.
- Narrow Width - Only 35"
- Wide Track Width - 44"
- Bucket Sizes: 36" - 44" - 48"

MODEL 1845C
51 H.P.
Why Not Try The All New 1845 C w/Great Serviceability.

MODEL 1835B
34 H.P. Diesel
or
32 H.P. Gas



We Are Your Experienced Dealer w/Service & Parts Backup

Stop In & Get A GOOD DEAL Now!

NOTE: We Have A NEW CASE 1835B DIESEL In Stock, w/Complete Backhoe Attachment, Model D100, Installed & Ready To Go!

Come And See... Get A Good Deal Now!

CASE IH 415 ROLLER MULCHER
Versatility To Match Your Needs

Non-fold models are available in 10 foot 1 inch to 15 foot 3 inch (3.08 to 4.65m) sizes. Choose either notched or crowfoot roller wheels.

w/Cylinder & Hoses For Lift
Set Up & Ready For Work!

Sizes In Stock:
- 10'11" Width, Tag NC 1058
  List Price ..... ~~$5,455~~
  DISCOUNT SALE PRICE.... **$4,909**
- 12'2" Width, Tag NC 1059
  List Price ..... ~~$6,303~~
  DISCOUNT SALE PRICE.... **$5,917**

Last One Left!
MODEL 5100 GRAIN DRILLS
20x6
- Double Disc Openers
- Press Wheels
- Fertilizer
- Footboards

Tag No. NC1074
List... ~~$7,924~~
SPECIAL CASH & TOW-AWAY PRICE..... **$5,790**

SAVE $1,000 ON A SET OF 4 WHEELS AND TIRES
New Demo, Case Dual Wheel Set of 4 Units w/Complete Bolt-On Hardware & New Tires, Ready To Mount On Your Case 90 Or 94 Series 4 Wheel Drive Tractor

~~$5,600~~ DISCOUNT SALE PRICE **$4,680**

We Have Several In Stock! Case IH

Handiest tool on the farm

Case International Rear-Mounted Blades

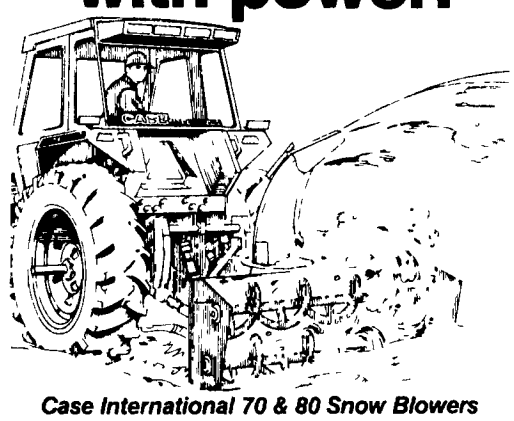
These blades are adaptable for so many jobs you ll wonder how you ever got along without one Six models all with high-carbon steel cutting edges designed to cut not scrape through tough soils A wide range of angle and offset adjust ments let you handle jobs all around the farm — ditching road grading backfilling feedlot cleaning and snow clearing

Sizes In Stock:
(1) MODEL 30 w/8 Ft. Blade Manual Adjust For Up To 60 HP, Tag No. NC1512 ONLY **$750**
(2) MODEL 20 w/8 Ft. Blade Manual Adjust For Up To 50 HP **$530**
(1) MODEL 15 w/7 Ft. Blade Manual Adjust For Up To 35 HP **$385**

MAKE A GOOD DEAL NOW!

IN STOCK AT DISCOUNT PRICES!

Fight snow with power!



Case International 70 & 80 Snow Blowers

Team up your tractor with a Case International snow blower to clear driveways barnyards and feedlots in a hurry You ll do a clean job in wet dry packed deep and drifted snow A paddle-center auger feeds the high-speed blower snow disappears as you back through it Blowers mount on Category I and II 3 point hitch tractors for pick up and go convenience

- 70 blower clears 78 path
- 80 blower clears 86 path
- Big auger and delivery chute resist clogging in wet heavy snow
- Choice of crank or hydraulic spout control adjustable skid shoes establish working height
- Drive chains are plated to fight rust drive is shear bolt protected

Case IH

Get ready for winter with a new blower

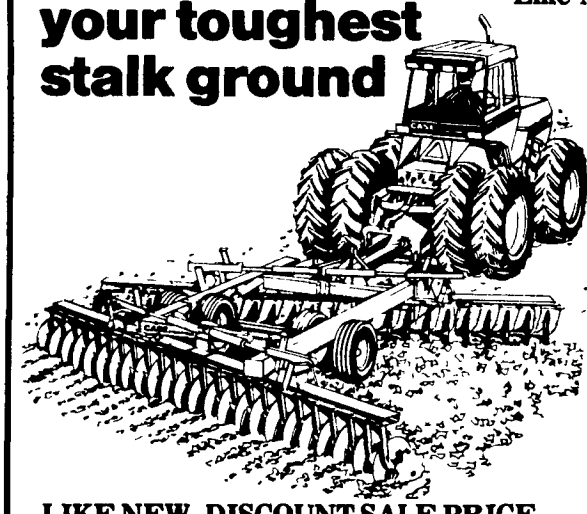
MODEL 70 Tag NC1630
ONLY....$1,795

MODEL 80 Single Auger w/Hyd. Spout Control, Tag NC1631 (Cyl. & Hoses Not Included)
ONLY....$1,795

MODEL 80 w/2 Augers & Hyd. Spout Control, w/Cyl. & Hoses, Tag NC1632
ONLY....$2,275

Chews up your toughest stalk ground

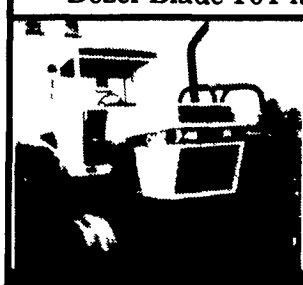
USED IH MODEL 770
Like-New Condition
In Stock



- 12' Working Width
- Standard Bearing Hangers
- All Hydraulics Included
- Dual Transport Wheels w/Flotation Tires
- Good, Heavy Earth Metal Blades w/Approx. 23" Dia. Front Gangs & 22" Dia. Rear Gangs

LIKE NEW, DISCOUNT SALE PRICE **$4,750**

MAKE YOUR TRACTOR A SNOW PUSHER NOW!
By The Time You Read This Ad, We Should Have In Stock A Front-Mount Dozer Blade To Fit Case IH 200 Series, 244 & 254 Tractors

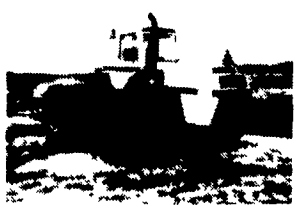


CASE 2090
Cab, Air, Heater, Power Shift, 18.4x38 Tires, Approx. 1300 Hrs.

~~$16,500~~ **$14,800**

Big Savings

EXCELLENT USED 300 H.P. CASE 2870
At The Right Price!
Duals, 1600 Approx. Original Hours



ONLY **$21,500**

Why Not Lease/Purchase & Get The Tax Advantage Now!

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SALES PARTS SERVICE

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Located ½ Mile North of Rothsville
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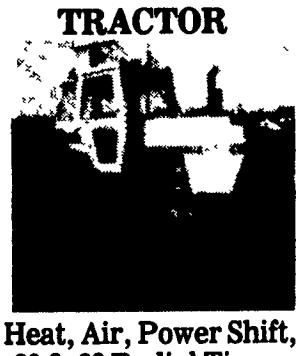
Hours Mon -Fri 7 AM - 5 PM.
Sat 7 AM - 11 30 AM
Sun Closed - Lord's Day

NOTICE...Why Not Try Our Good, Very Competitive Lease/Purchase Plan On One Of These New Or Used Tractor Specials?

It Could Possibly Be Better Than An Outright Purchase Because Of Possible Retained Investment Tax Credits Available To Some Ag Lease Plans

Call Or Stop In Now...Don't Wait!

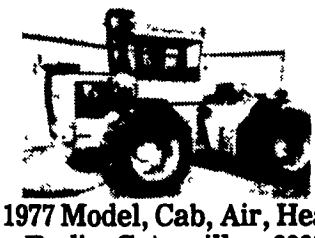
CASE 2390 CAB TRACTOR



Heat, Air, Power Shift, 20.8x38 Radial Tires - Approx. 75% (Wts. Not Included). A Good, Sound One Owner Tractor. Tag No. UT1177

SPECIAL **$15,800**

SAVE $2,000 STEIGER WILDCAT ST 210



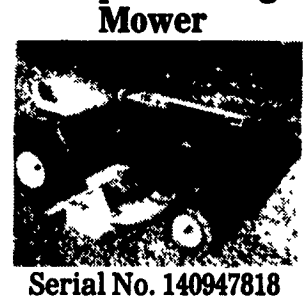
1977 Model, Cab, Air, Heat, Radio, Caterpillar, 3208 Engine, 3 Remote Outlets, 3 Pt. Hitch w/ Quick Hitch, 18.4x34 w/Duals, 2325 Hrs., Local One Owner Tractor

Was ~~$14,800~~

NOW ONLY **$12,800**

w/Financing Available

SAVE $1,000 On A MODEL 116 Demo, 16 HP Compact Riding Mower

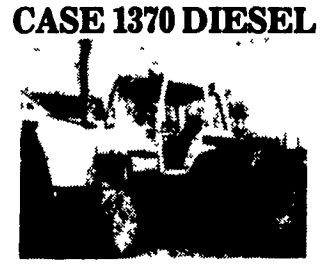


Serial No. 140947818 w/44" Rear Discharge Mower

Was ~~$2,971~~

NOW ONLY **$1,250**

CASE 1370 DIESEL

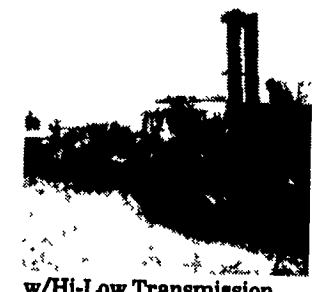


Power Shift, 155 HP Rating 20.8x38 Radial Tires (Duals Not Included). Motor Just Re-done w/Sleeves & Rings. UT 1171

Was ~~$11,800~~

NOW ONLY **$9,800**

SAVE $1,000 Like New AC 21 Ft. Propane Gas Powered FORKLIFT

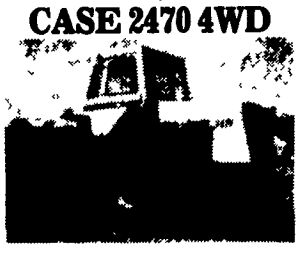


w/Hi-Low Transmission, Forward & Reverse Auto. Shuttle Transmission w/Torque Converter, Lifts Approx. 5500 Lbs., Less Than 1400 Hrs.

Was $10,800

NOW ONLY **$9,800**

SAVE $1,000 CASE 2470 4WD



3532 Hrs., Dual Remotes, 23.1x30 Tires

Was ~~$13,800~~

NOW ONLY **$12,800**

CASE 1830 GAS UNILOADER

Late 1979 Model w/ROPS Cage, Approx. 1075 Hrs., Good Paint, UT 1205

Loaded **$5,960**

GOOSEN BALE CHOPPER

w/30 Ft. of 6" Hose, Self-Contained Power Unit, 11 HP Honda, Tag No. 1452

~~$3,050~~ **$2,485**

1984 CASE MODEL 855C CRAWLER LOADER

G.P. Bucket ROPS Canopy, Brush Sweeps, Rear Wt. w/Drawbar, Good Pads, Good UC, 735 Hrs., Excellent Condition

$34,900

SAVE $3,000 CASE 586D DIESEL FORKLIFT w/21' MAST

6,000 Lb. Capacity, Approx. 500 Hrs., Side Shifter, Like New $24,800

SPECIAL...PRICED TO GO NOW...You Haul Away For Only

$21,800

1980 CASE MODEL 850B CRAWLER LOADER

ROPS, Brush Sweeps w/G.P. Bucket w/Teeth, Good Paint, Good Pads, Good UC, Pins & Bushings - 50% SN 7079648 Tag No. UT1193

$27,900

IMC 3 PT. LOGGING WINCH

To Fit On Your Farm Tractor, Approx. 250 Ft. of Cable, PTO Driven w/Brake, 3 Ton Pull

Our Reg. Price ~~$545~~

DISCOUNT SALE PRICE **$495**

CATERPILLAR MODEL 941 CRAWLER LOADER

w/Good General Purpose Bucket, Power Shift, Good 70% U.C.

$16,900

Left-Over Bargain! BUSH HOG MODEL 1439 TRANSPORT DISK HARROW

16 Ft., Spring Assist Wing Harrow w/9" Spacing, 4 Transport Wheels, Scrapers, Buster Bar Leveling Attachment, Blade Dia. Approx. 17" (Hyd. Lift Cyl. Not Included)

$2,350

NOTICE: We Have FORKLIFT BLOCK TINES In Stock

(3) Like New Sets Of 2 To Fit Case 586, 6,000 Lb. Forklift

PRICE PER PAIR....~~$425~~

Reminder - New Tines Cost Approx. $350 Each.)

So Get A Bargain On These Like New Sets

New BUSH HOG 7 Ft. 3 Pt. SQUEALER TWIN SPINNER ROTARY CUTTER

List ~~$1,575~~ **$1,149**

HUSKY VACUUM TANKERS

MODEL 12000L 3000 GAL. VACUUM LIQUID SPREADER

w/18x22 Used Truck Tires

25 Years of Experience In Manure Handling.

The Husky Vacuum Tanker is the best.

Designed for continuous use and long life.

Truck mounts for industrial use.

Tandem spreaders for farm use.

Sizes from: 7000 litre (1800 gal) to 18000 litre (5000 gal)

We custom build for special applications.

5 YEARS UNCONDITIONAL AXLE WARRANTY

Tag No. 1672

List Price $15,020

SPECIAL TOW-AWAY PRICE ONLY **$9,680**

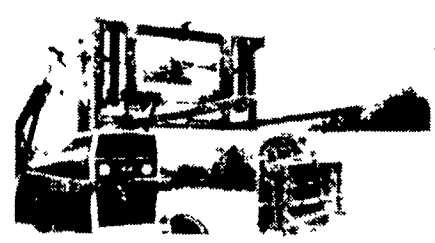
NOTICE ALL BRAND NEW HUSKY 1500 GAL. VACUUM SPREADER

Features 5 Yr. Unconditional Axle Warranty

- 6 MM Tank w/Dished Ends
- New Tanker Lined Inside Against Rust w/Special Coating
- Fully Baffled
- Access Hatch
- Level Sight Gauge
- 6" Fill Port w/Brass Valve
- 6" Vac. Hose
- Secondary Moisture Trap
- Positive Float Shut-off
- Vacuum Pump Supplied w/High Heat Vanes
- Hydraulic Operated 6" Brass Valve For Rear Discharge
- Adjustable Spread Pattern

SPECIAL **$5,575**

UNIVERSAL LOADER w/ADJUSTABLE FORKS



Model ULF-3010 Shipping wt. 410 lbs.

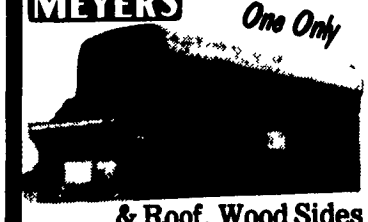
A Worksaver exclusive, this loader's adjustable width forks let you easily handle pallets, bale feeders, and round bales up to 3000 lbs. Fits Category II standard and quick hitches or double cylinder front end loaders with a load center arm distance of 46 inches or less. Features removable center stabilizer spike for safety.

Reg. Price...~~$495~~

DISCOUNT SALE PRICE **$425**

MEYER'S

One Only



518 FORAGE BOX w/3 Beaters & Roof, Wood Sides & Wood Stakes, 6'x16' In Stock

DISCOUNT SALE PRICE **$4,350**

One New McCurdy CROSS FILL AUGER

For Your IH 6 Row Model 800 Cornplanter. Tag No. 1700

List...$1,075

DISCOUNT

SALE PRICE..... **$795**

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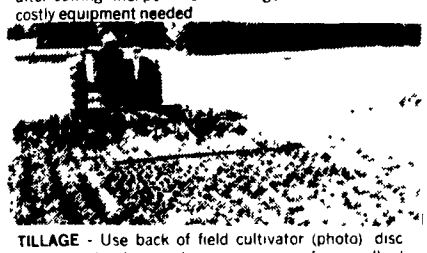
We Have A Few Leftovers, So Buy In January And

A Good Idea That Works

SAVE BY DEDUCTING 20% OFF PRICES SHOWN!

PASTURE MAINTENANCE - Stimulates grass growth Scatters droppings helps control parasites tears out dead growth, aerates for better moisture penetration works in fertilizer Flexes to cover every inch of the ground

PASTURE RENOVATION at Low Cost (Fertilize and lime as required) Scarify to prepare shallow seedbed without destroying existing turf Use to cover seed after sowing Inexpensive no dangerous chemicals or costly equipment needed



TILLAGE - Use back of field cultivator (photo) disc spring tooth plow or alone prepares a fine seedbed breaks up crust on hard packed soil Use for first cultivation on corn beans etc Covers small grain back of broadcaster

FUERST F-L-E-X-I-B-L-E TINE HARROW®

ADJUSTABLE PENETRATION FOR GREATER VERSATILITY -- HERCULES ILLUSTRATED

MAXIMUM PENETRATION – Tines down pointed slightly back

LIGHT PENETRATION – Tines down pointed further back

SMOOTHING FLOATING – Tines up pull in either direction

TWO JOBS IN ONE PASS – Front section – maximum penetration rear section – light penetration or floating HERCULES Models only

HERCULES — *Faster and Safer at any Speed!*

Unique tine design and exclusive spreader bars allow much greater speed save labor time and money Others recommend operation at 3½ to 4 m p h (at higher speeds they skip jump and skim the surface loosing effectiveness) See chart for added acreage covered by Hercules

Acres covered per hour at various speeds

Width of Harrow	3 m.p.h.	3½ m.p.h.	4 m.p.h.	5 m.p.h.	6 m.p.h.	*7 m.p.h.	*8 m.p.h.
8 ft	2.4	2.8	3.2	4	4.8	5.6	6.4
10 ft	3	3.5	4	5	6	7	8
12 ft	3.6	4.2	4.8	6	7.2	8.4	9.6
16 ft	4.8	5	6.4	8	9.6	11.2	12.8
20 ft	6	7	8	10	12	14	16
24 ft	7.2	8.4	9.6	12	14.4	16.8	19.2

*Only the Fuerst Hercules design allows effective coverage and operation at these higher speeds

Easy to use, handle, store

Specially designed 7/16 (10.5 mm) steel tines – virtually indestructible No parts to grease oil tighten Design and construction assures maximum penetration while flexing to cover every inch of the ground

Connecting front and rear sections of Hercules Harrow

All models sectionalized for ease of handling Sections roll up for compact storage transport All FUERST Harrows easily assemble disassemble without tools If ever needed parts readily available

Easy way to transport Hercules Model 12

A GREAT, INEXPENSIVE TILLAGE TOOL

- 8 Ft. Model, Tag No. 1714, UM 1060 ..... **$388**
- 12 Ft. Model, Tag No. 1213, Tag UM 1060..... **$754**
- 14 Ft. Model, One Only, Tag No. 1214..... **$817**
- 16 Ft. Model, Tag UM1060 ..... **$817**

One Only In Some Sizes - New, Some Slightly Weathered

NOTE WE ALSO HAVE:
(8) 5 Ft. Mini-Style Models w/Hitches, Complete, Tag No. UM1060 ..... **$170 ea.**
(1) 5 Ft. Front Section w/Hitch, UM1060 ..... **$100**

Help Us Clean Out The Corners By Buying Now AND SAVE 20% OFF!

Our Loss - Your Gain, But They Must Go!

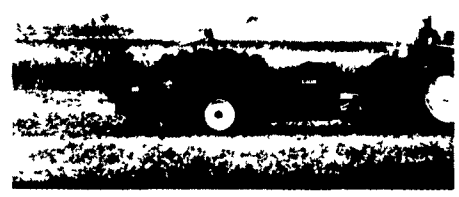
Gehl has the answer to every spreading need.

And Binkley and Hurst Bros., Inc. has a good deal waiting for you!

a. Solid

If you handle mostly solid manure the Gehl 100 Series box spreader should be your choice It's built to give you more years of service A special, constructed floor with Clad Tuff protection prevents the apron from freezing to the floor The Ex Ten steel frame has more strength than ordinary steel And the copper bearing steel sides form a self healing rust scale that prevents pitting Six sizes are available with load capacities from 135 up to 425 bushels heaped (243 cu ft)

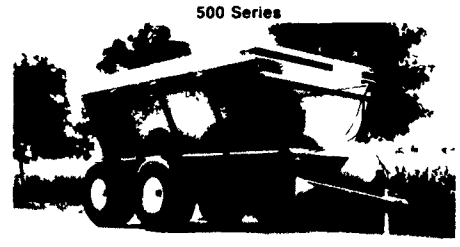
100 Series



b. Semi-Solid

The Gehl 500 Series gets semi solid manure onto your fields fast and economically Loading is easy from barn cleaner or bucket with the efficient open top design An internal chopper type auger blends manure and forces it to the oversized heavy duty rear fan for wide even discharge patterns Engineered to handle high volumes it can spread up to 1500 gallons of semi solid manure in 2 5 minutes with uniform patterns up to 50 feet

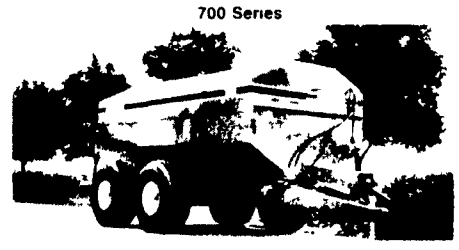
500 Series



c. Liquid

If you handle only liquid manure a Gehl 700 Series liquid tanker should be your choice Featuring an internal auger it spreads evenly up hill or down Plus two discharge outlets let you choose either high application rates and fast unloading, or moderate application rates And a flotation tire option lets you work in low flow during loading

700 Series



d. All of the above

The one spreader to [illegible] a Gehl 300 Series spreader let you spread all kinds of solids per pick even frozen manure The heavy duty square tube auger make the difference Turning at RPM gives a unique pulse action that breaks up manure and tank Spiral formed paddles up through trough and tines steady consistent flow to the discharge The auger can be powered up and down to suit bridged and frozen material Variable discharge gives you complete application control

300 Series

For more answers about the Gehl spreader that fits your manure management system talk to your Gehl dealer Or contact Gehl Company for a free manure spreader technical series buyers guide Gehl Company 143 Water Street West Bend WI 53095

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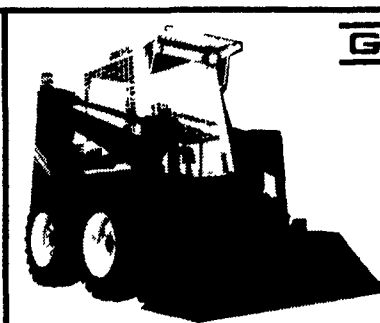
Attention Gardeners & Horse Owners DUMP AND CARRY

Ideal For Stable Cleaning & Farm Chores. Ideal For The Small Farmer's Uses. Install This Unit On Your Small Tractor And Get In Tight-Cornered Stables, Etc.

$295



GEHL

SELF-LEVELING SKID LOADER 4610 Diesel Powered 44 H.P.

65" Wide

Place Your Order Now!

Diesel Powered Hyd. Drive.
10.00x16.5 Flotation Lug Tires
Factory Fresh, Just Arrived!

List Price Over $19,000
SPECIAL CASH PRICE **$12,850**

Stop In For Your SPECIAL DISCOUNT BUYING PRICE Now!

START THE YEAR RIGHT WITH OUR GOOD MACHINERY SPECIALS

- Used 9 Shank Glencoe Soil Saver...Reg. ~~$2,895~~ **$2,695**
- Never Used Dual Tractor Mount Front End Loader w/Bracket To Fit Ford 8000 Series Tractors. No Hoses Or Valves, But All Cylinders And 84" Bucket Included, ~~$1,795~~ **$1,380**
- Never Used Wetmore Grinder Blower...~~$2,250~~ **$1,950**
- Starline Side Unload Tank Spreader Tandem Axle ..... **Make Offer'**
- Save $700 On A MF Model 820 Wing Disk w/Spring Bearing Hangers, Approx. 21-22 Ft. Hyd. Wing Fold, Transport Disk w/9" Spacing On Front Gangs & 7½" Spacing On Rear Gangs. Blade Dia. Varies From 20" To 22", Gangs Are Spring Bearing Rock Flex Mounted...Reg. ~~$4,950~~ $4,250
- Glencoe Model HTS 430 High Trash Row Crop Cultivator For Conservation Tillage Practices. New No Till Ridge Cultivator, 4-30" Rows...One Only ..List ~~$6,183~~ **$4,495**
- (2) New Dunham 12 Ft. Cultipackers w/34-17" Rollers, Approx. Wt. 1470 Lbs. (Transport Kit & Scrapers Not Included In Price)..... **Discount Set-Up Price...$1,475**
- (1) New Dunham 14'3" Cultipacker w/17" Rollers, Approx Wt. 1,695 Lbs. (Transport Kit & Scrapers Not Included In Price)..... **Discount Set-Up Price...$1,720**
- Transport Kit In Stock For Any Model Packer (Less Hyd.) **$542**
- Try A New, Well-Built, Inexpensive Tilt-Bed Trailer w/Ball Hitch, 6'x10' w/3500 GVWR, Trailer Wt. 800 Lbs., 20.5x65 R15 Tires, No Brakes **$780**

PACER 6 FT. 3 PT. LANDSCAPER

Model LS 72", 6 Ft.

Only On Available

List...~~$646~~

DISCOUNT SALE PRICE **$586**

Only One Left...Brand New SPEED KING HEAVY DUTY TRANSPORT GRAIN AUGER

10" Dia. x 51', PTO

List ..~~$2,730~~

DISCOUNT SALE PRICE..... **$2,578**

GOOD USED BETTER-BILT 1500 VACUUM SPREADER

- Single Axle
- 49x17 Tires 1 New
- Open Rear Door
- PB3 Pump w/2 Tooth Front Plow Down

$2,900

Used Hedlund Martin

3,000 Gal. Semi-Solid On Truck Frame w/Tandem Dual

$2,350

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Old 2 cylinder JD flywheels, rebuiilt with our patented steel drawn in hub, which has the ability to tighten up on worn crankshaft. New manufactured flywheels also available. Hubs available for installation by your local machinist. Home of the original taper lock super grip steel drawn in hubs. Dealer inquiries welcomed.

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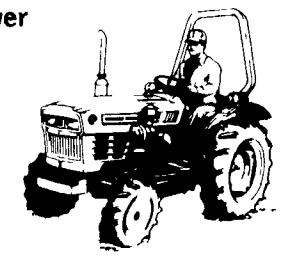
14 to 33 Horsepower
2 & 4 Wheel
Drive



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Shift on the Go, Live PTO Yanmar tractors mean a world of operating ease Famous Yanmar Diesel power, 3-point hitch, clutchless on-the-go shifting Test drive a Yanmar

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HAPPY NEW YEAR

USED EQUIPMENT

9 Used Prime Mover Skid Loaders
IH Model 125C Crawler-Loader
w/4 in 1 Bucket

DEUTZ ALLIS

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FOR SALE
Tractors

IH 1086, 1066, 966, 856, 806, 766, 706, 656, 560, 560 w/loader, 460, 400, M, MD; JD 4030, 4020 FC, 3010, 730; Ford 801 & 8N; Oliver 1650, 1600, 1550; MF 135, 20 w/fork lift; AC 170 w/loader, forklift; PD9 IH crawler loader; plows 2 through 6 bottom and other types of farm eq.

Gary Leader
814-652-2809

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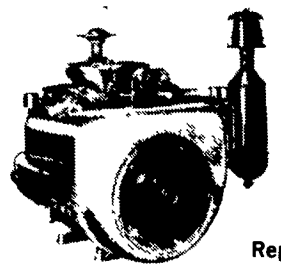

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Replacement Engines

Special Prices Starting At **$1,775**

After 8 Years Of Servicing Primarily Wisconsin Engines, We Have Decided To Become An Authorized Wisconsin Service And Warrantee Center.

As An Introductory Offer We Will Give:
- 15% Discount On All Wisconsin Parts Sold Over The Counter
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- Plus 10% Off On Repair Bills

Also featuring For Farmers, Contractors, & Homeowners Our Winter Discount Program.

10% Discount On Parts And Labor On Engines Scheduled for Repair Before Feb. 28, 1987

Get Your Engines In Shape Now For Spring We Can Repair, Overhaul Or Rebuild Your Engine Or Tractor We Stock Parts For Lombardini Diesels, Wisconsin, Kohler, Kawasaki, And Briggs & Stratton Engines

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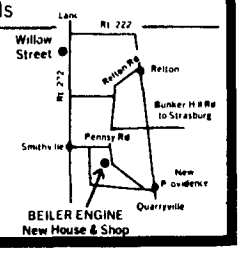

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- V465D, 65.9 HP **$2,900**
- VG4D, 35 HP ..... As Low As **$1,725**
- VH4D 30 HP ..... As Low As **$1,450**
- W21230 25 HP ..... As Low As **$1,200**

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NEW

BUTLER | Livestock Systems

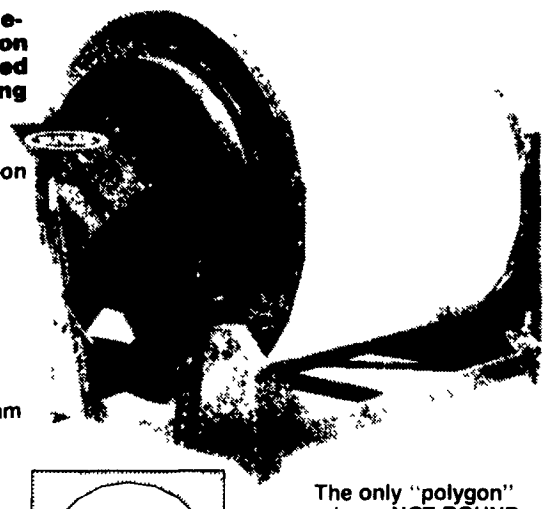
"POLYGON" ENSILMIXER®

The proven management and production tool for a Total Mixed Ration (TMR) feeding program provides:

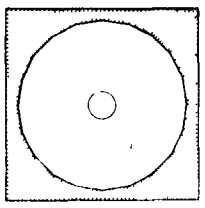
Increased milk production
Faster weight gains
Healthier cattle
More profit

Lower feed costs

Better feed management + controlled feed program



Rapid and thorough blending and mixing



Waterfall action

The only "polygon" mixer—NOT ROUND—featuring exclusive waterfall mixing action! Superior to all other round designs

DEPENDABLE MOTOR CO.
East Main St., Honey Brook, Pa. 215-273-3131 · 273 3737

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USED EQUIPMENT

TRACTORS

4534 IH 986
4646 IH 560
4722 IH 4568
6490 AC 7000
6482 IH 1586
4783 IH 886
4558 Farmall H
6541 Case 630
6536 IH 5488

COMBINES

*6443 AC L2
*3058 JD 7700 w/Chopper
*6512 AC A
*3784 IH 1440
*3882 IH 915
*3983 IH 915

TILLAGE

6403 JD 210 Disc 13'
4524 Ford 142 Plow 5x16
6103 Sunflower HB Chisel Plow 27'
3841 IH 540 Plow
3799 IH 370 Disc 13'
6491 IH 14 Subsoiler
4659 Krause 4133 Field Cultivator
6325 Krause 1924 Disc 20'
4099 Krause 1966 Disc 31'
5054 Krause 2143 Disc 42'
5457 Krause 2413 Disc 23'
4667 JD 12 Shank Chisel Plow
5561 JD 210 Disc 13'
6545 IH 140 Rollover Plow 4x16
5419 JD 22 Shank Chisel Plow
5534 Glencoe Soil Finisher 20'
4773 Glencoe 12 ft. Soil Finisher
3301 Wilrich Field Cultivator, 37'
4092 Miller 20' Offset Disc
4587 Brillion 16' Field Cultivator
6494 Brillion 21' Crowfoot Packer

MISCELLANEOUS

6547 JD 15' Shredder
4537 JD 400 Gal Sprayer
6531 IH 1190 Mower Conditioner 9'
6334 Gehl 1500 Round Baler
6516 IH 40 Shredder
5487 NH 280 Baler
3561 NH 495 Haybine
3837 NI 245 Manure Spreader
3900 John Blue 1000 Gal. Sprayer
4613 IH 60 Shredder
4887 Rhino Flex 15 Mower
6304 Lilliston 7-6 Mower
6615 JDB 7x18 Drill

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HOOBER
HOOBER EQUIPMENT INC.
MIDDLETOWN, DE

NEW HOLLAND
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1-800-341-4028
Case IH

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717-328-2244
717-328-2226

JOHN DEERE

USED EQUIPMENT

JD 4050 Tractor w/Power Shift, Cab, MFWD, Low Hrs.
JD 54 Spreader w/Top Beater, good cond.
MF 65 Tractor, Diesel, Very Clean
Case 1570 Tractor, very good condition Priced below Dealer's Cost
MF 410 Combine w/4 RW Head
JD 4400 Combine, Dsl. Engine w/Both Heads
Papec Harvester w/PU Head, 2R C.H., 2 R Snapper Head
JD 7000, 6R Conservation, Loaded, Dry Fertilizer
JD 7000, 4R Planter w/Frame Mtd. Coulters
JD 7000 4 RN Corn Planter
JD 1240, 4R Planter, $750
JD 494A Planter, $500
IH 400 Cyclo 6R Planter w/Liq. Fert., Insect. Attach., Hyd. Markers, Monitor $3,000
IH 400 Cyclo 6R Planter w/Dry Fert., Insect. Attach., Hyd. Markers, Monitor, Hydraulic Driven, $3,000
Case 140 spreader, top beater, good cond.
JD 3B Hydraulic Reset Plow
JD AW Disk
JD 520 Sprayer
JD 213 Grain Head

Ask about finance program on new & used equipment.

Check On Waiver Of Finance Available On All Our Machinery

COMBINES

JD 7720 4WD, 2400 Hrs. 216 Flex Cutter Bar, 643 C.H.
JD 7720 w/4WD, 1,830 Hrs. w/JD 220 flex cutter bar, and JD 843 corn head
JD 7700, 15' Platform 1971
JD 7700 Gear Drive, Rotary Screen, 15' Cutterbar, 1975
JD 6600, Gear Drive, 14' Cutter Bar
JD 4400, 1977, Rotary Screen w/215 Flex Cutter Bar

TRACTORS

'78 JD 2440, 940 hrs., excellent condition
'75 JD 2630
'74 IH 1066
'71 JD 4620, Cab, Dual, 20.8 Tires
'73 JD 4430, Cab & Air, QR Dual 18.4x38
IH 184 Low Boy w/60" Woods Mower

TILLAGE

15' Ford disc harrow w/dual whls.
JD F145, 4 btm. semi plow
Ford 4 btm. 16" mounted plow

PLANTING EQUIPMENT

JD 7000 Front Fold No-Till Coulters, Liq. Fert.

MISCELLANEOUS

Farm Hand XG-50 tub grinder, excellent condition, 2 yrs. old, all updates installed, $16,000
JD 35 Harvester w/2 RW Head
JD Rotary Hoe 3 Pth.
Century Recycling Sprayer
Hesston Round Baler 5600
JD 336 Baler
IH 3 pt. hitch sickle bar mower

W.N. COOPER & SON, INC.

Morgnec Rd. Rt. 291
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USED EQUIPMENT

JD 630 WF
JD 520
JD 50
IH 806 Gas
Farmall Super C w/Fast Hitch
Farmall Super M

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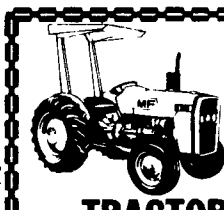

MASSEY-FERGUSON
Where farmers' ideas take root.

TRACTORS & EQUIPMENT

MF 40 Diesel Tractor w/Loader
MF 50C Tractor w/Loader & Cab
MF 204 Tractor w/Loader
MF 750 Combine w/Attchs
MF 510 Combine w/63C Corn Head

NEW M.F. EQUIPMENT

MF 240 Tractor
MF 240 Tractor
MF 283 Tractor
MF 1030 Tractor 4 WD
MF 1020 Tractor w/Turf Tires
MF 1010 Tractor w/218 Mower
MF 1010 Tractor
MF #43 2B Plow
MF 427 No-Till Drill
MF 226 Scraper Blade
MF 227 Scraper Blade
MF 22 Bale Thrower
MF 218 3 pt. Rotary Cutter
MF 222 Scraper Blades
MF 1018 Mower

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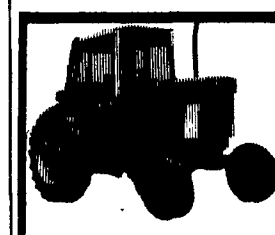

NEW TRACTORS

234- Turf Tires
585
485
385 w/2200 Loader
385 4WD

NEW EQUIPMENT

IH 86 Rake
1190 7' Mower Cond.
530 Spreader
540 Spreader

USED EQUIPMENT

Woods 5' Rotary Mowers

USED TRACTORS

Farmall 656
Farmall H
Farmall C w/Equip. Cult., Plow, Snow-blade, Mower, like new
154 LowBoy w/mower
Cub Low Boy w/mower & blade
Farmall Cub w/mower & blade
Farmall 140 w/Woods 6' mower
Cub Cadet 782D w/equip

case IH

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Thorndale, PA
Phone 215-269-2676

Plugston Implement Inc.

Chambersburg, PA 17201

USED JOHN DEERE

JD 4440 SG, PS
JD 4240, PS, 4 Post, Returned off of Lease
JD 4230 QR
JD 2640
JD 3010 Tractor
JD 2510
JD 300 Husker w/2 Heads
JD 6RN 7000 Planter w/Fill Auger & No-till
JD 6RN 7000 Planter w/Liq. Fert. & No-till
JD 2RN & 2 RW C.H.
JD 1209 Mower Conditioner
JD 14T Baler
JD 336 Baler
JD Transport Disc
JD 216 Fg. Wagon
JD 66 & 6000 Blowers
JD Drill

USED NEW HOLLAND

NH Super 68 Baler w/Thrower
NH 273 Baler w/Thrower
NH 2R Snapper Head for Fg. Harv.
NH 23 & 26 Blower
NH 329, 513 & 518 Spreaders
NH 890 w/3RN & Pickup
NH 880 w/2RN
NH 1469 SP Haybine
NH 1495 Gas SP Haybine
NH 1495 Dsl. SP Haybine
(2) NH 489 Haybines
NH 495 Haybine

THIS WEEK'S SPECIAL
JD 2940 w/MFWD & 260 Loader
Price Reduced

USED TRACTORS

MF 175

OTHER USED ITEMS

Bobcat 743 w/780 hrs.
Case 1845 Dsl. Skid Loader
Gehl 1600 Round Baler
Ford 4B Reset Plow
Ford 3B Trip Back Plow
NI 208, 213 & 214 Manure Spreaders
White 5400 6RN w/no-till
IH 800 Cyclo 4R No-till Planter
IH 440 Baler w/Thrower
Fox 3000 Harvester
Fox 6½' PU Head
NH 450 7' Mower
Dion Forage Wagon
Field Sprayers: 500 gal. Century; 200 gal.; 150 gal.
Gehl 2500 Skid Loader
Gehl Pivot Tongue Mower Conditioner
Hesston 1014 & 1090 Mower Conditioners

NEW JOHN DEERE EQUIP.

Tractors:
4250 SG, PS
3150 MFWD, SG
2550

Compact Utility Tractors: 650, 750, 755, 855, 1050

Combine: 4425 w/Heads

Balers: 327, 337, 347, 330, 430

Forage Harvesters:
5730 w/Iron Guard
3950

Spreader: 780

Forage Wagon: 716A

NEW NEW HOLLAND EQUIP.

Balers: 311, 326, 853

Blowers: 28

Haybines: 411, 489, 499

Forage Harvester: 790

Spreaders: 302, 520, 680, 514

Skid Loader: 455

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Farm Boy 642B, 743

1-81 Exit 8
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Chambersburg, PA 17201

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JOHN DEERE
NEW HOLLAND
bobcat

KHD
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JOHN DEERE TRACTORS

A- Late Model-Cyclone	$800
A w/Widefront-For Collector	$1500
620-3 Pt.-PS-Runs Good	$2200
420 w/Mower-3 pt.-WF-RCP	$2900
301-Gas-As Received	$2900
(2) 435-GM Diesel-RCP	Each $3900
1010-Gas-Cult.-RCP	$3900
730 Diesel-Try-3 pt.-RCP	$3900
JD 301 w/Mower-Clean	$3900
430-PS-3 pt. Cult.-For Collector-RCP	$4500
830-DE-2 Cyl.-Nice	$4500
830-DE-2 Cyl.-Nice	$5500
301 w/Loader-Gas-3 pt.-PTO	$5900
3020 Diesel-WF	$5900
2640 Orchard	$5900
4020-Very Nice-RCP-1968	$6900
4230-4 WD-Cab-Quad	$17,200
R-80-820-830 In Stock	Call

FORD TRACTORS

8N-Nice	$2400
8N-Very Nice	$3200
4000-Utility-Gas-PS-RCP	$4500
3400 w/ldr.-Forks-RCP	$4900
2000 w/Mower	$5900
3400 w/Loader-Gas-3 pt.-PTO	$5900
1700 Tire Chains 227 Hours	$5900
335-Gas-3 Pt-PTO-ROPS	$6500
4400 w/Loader-Gas-3 pt.-PTO	$6500
4400 w/ldr.-RCP-Gas-3 pt.-PTO	$6800
4600 Diesel	$6900
5000D-Redone	$6900
9700-ROPS-Wts.	$7700
6600 Diesel-Flat Deck	$7900
4100 Diesel-4WD-Cab	$8500
8700-Dual Power	$8900
420 w/ldr.-RCP	$8900
(12) 515 w/Loader-Gas-3 pt-PTO	$7900 to $8900

FARMALL TRACTORS

Super A w/Cult.	$1900
Super C w/Cult-Sharp	$1900
Cub-Mower-Hydraulic	$2000
Cub-Late Style	$2500
404 w/Mower	$2500
504 Diesel-Hi Clearance	$2600
Super AV w/Cultivator-RCP	$2900
350 Utility w/Rotary Mower-RCP	$2900
544 w/Ind. Rotary Mower-RCP	$3100
140 w/Woods Rotary Mower-RCP	$3900
424-Diesel-Utility-RCP	$3900
560D-Clean-Wide Front-FH	$3900
656 Diesel-Utility	$4500
574-Cab	$5200
656D-Hydro-Clean	$5900
100 Hydro	$5900
504 w/Loader-Gas-Utility	$5900
784-Cab-3500 Hours-1978	$6900
86 Hydro-Hi-Clear-Diesel-RCP	$6900
1206-Nice Local Trade	$6900
2400 B w/Loader-Gas-3 pt.-PTO	$6900
2400 B w/Loader-Gas-3 pt.-PTO	$7200
2500 A w/Loader-Gas-3 pt.-PTO	$7500
2500 B w/Loader-Gas-3 pt.-PTO	$7700
2500 B w/Loader-Gas-3 pt.-PTO	$7900
886-1979-Cab-Air-TA Works	$8900
1586-Cab-Air-Bad TA	$11,900
1466-Cab-Super Sharp	$11,900
766-Cab	Coming In
826 Cab	Coming In

OLIVER & WHITE TRACTORS

1355	$2500
88-Wide Front-For Collector	$2900
2255-Cab-Air-Fender Tanks	$7900

CASE TRACTORS

930 CK Standard-Clean	$3900
970-Sharp	$6500
2670-Cab-Duals-3 pt.-PTO-RCP	$13,500

MASSEY FERGUSON TRACTORS

Pony w/Mott Mower	$1900
22 w/Loader-3 Pt.	$2000
1080D-1972	$2900
130 Vineyard-Diesel-3 Pt.	$3400
35 Gas-WF-3 pt.	$3400
65 Utility Diesel-Rebuilt Multi Power	$3900
35-Gas-RCP	$3900
Workbull w/Loader-Diesel-3 pt.	$3900
(2) 50-GAS-RCP-Sharp	Choice $4800
65 Gas-PS-RCP	$4800
30 w/Loader-3 pt.	$4900
35 GAS-P.S.-RCP	$4900
165 Diesel-Multipower	$5400
Workbull w/Loader-Gas-3 pt.-PTO	$5900
MF 165 Gas-WF-3 pt.-RCP	$5900
1105-Diesel-WF-3 pt.-RCP	$6900

IMT, LONG, KUBOTA, VALPADANA & DEUTZ TRACTORS

Long 460-1978-As Is	$2500
Kubota B6100-2WD	$2900
(2) Kubota G5200 w/Mowers	$3495
Kubota B7000-4WD-Rotovator	$4400
Valpadana 20/26 4WD-DEMO	$5900
Kubota L235-4WD	$6900
IMT 539-Demo.	$6900
Kubota L275-4WD w/Mower	$8800
Valpadana 4033-4WD-DEMO	$8800
Long 360 4 WD-New-Was $13,690	$9400
Long 460 4 WD-New-Was $15,373	$10,800

ALLIS CHALMERS TRACTORS

G-RCP	$1900
D17-Gas-Try	$2900
200	$4900
210 Diesel	$6500
185-Wts.-Very Nice	$8500
185 Cab-Air-1978-2200 Hours	$9900

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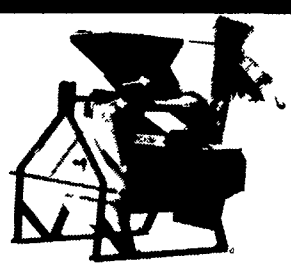
3 Pt. & Pull Type



NEW CORNSHELLERS

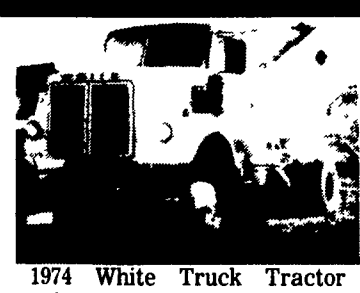
- 3 Pt. Economy $795
- 3 Pt. Standard $1395
- 3 Pt. Deluxe $1695
- Pull Type ..... Add $100

Pictured Is Standard Model

NEW SHIPMENT JUST ARRIVED

3 Pt. WOODSAWS

$495



1974 White Truck Tractor w/Heavy Loading Crane, Crane Turns 180°, Rebuilt 318 Detroit, 10 Speed Road Ranger, 4 WD, Operating Condition, Truck Has P.T.O.

ONLY $6500

TRUCKS

1956 GMC 10 Wheel Dump	$3500
1966 Chevy C60 Dump	$3500
1968 IH 1x Dump.	$3500
1973 Ford F350 w/Dump.	$4900
1968 Dia Reo 1x Dump	$4900
1974 White Diesel w/Crane	$6500

FIELD CULTIVATORS

Glencoe 13' 3 pt

FORAGE WAGONS

Fox 625

POTATO EQUIP.

Iron Age 2X Planter
1 Row Planter
2 Row Digger
1 Row Digger-3 pt

DUALS

18.4x34 Snap On
20.8x38 Axle
18 4x34 Axle
18.4x38 Snap On
18.4x38 Ford Axle
20.8x38 Snap On

SPREADERS

JD R
IH Cub
NI 18
NI 12A

CONSTRUCTION EQUIPMENT

NEW 1986 TRAILERS ON SPECIAL

- 2 Axle, 4 Ton 14 Ft **$1,495**

TRAILERS

1986 1x1 Ton	$695
1986 2X 4 Ton	$1500
6 Ton Tag-A-Long	$2800
6 Ton Goose-neck	$3400
Used 12 Ton	$3900
26' Goose-neck	$4500
Phelan 20' Lowboy	$4800
1986-12 Ton	$5800
1977 44' Movall Drop Deck	$10,500
1977 Phelan 25 Ton Double Drop	$12,500

SKID STEER LOADERS

White 4-30	$3900
Melroe 720	$4900
OMC 440	$7900
(2) Case 1845 Diesel	$8900

FORKLIFTS

4000 lb, Solid Tires, Side Shift	$1000
3 pt. Attach-NEW	$2500
Clark 6000 lb	$2900
Datsun 9000 lb	$3900
White 6000 lb	$4900
AC 6000 lb -RT	$5900
Clark 8000 lb -RT	$5900
White 4000 lb	$6900
White 2-44	$7900
TCM-6000 Lb	$7900
Hyster 10 Ton-RT	$8900
TCM 5000 Lb.	$9900
Komatsu 5000 lb	$9900
AC 600-21'	$10,500
White 21'	$11,500
Case 586-14'	$12,500
AC 1600-21'	$12,500
Case 584-21'-Gas	$14,500
Sanderson SB70	$16,500

MISC. CONSTRUCTION

(100+) Used Hoe Buckets	Come Look
(30) Loader Buckets	Come Look
(30) Set Forklift Forks	Come Look
Mortar Mixer	$795
(2) Rollers-1 Ton	$1250 & Up
2 Ton Roller	$1750
JD 350 Winch Attach	$1900
Knuckle Boom Log Loader Assy	$3500
Joy 185 Diesel Compressor	$5900
Galion 503 Grader	$7900
Galion 503 Grader	$8900
Leroi 175 Air Compressor	$8900
Rex 3-50 Compactor	$39,500

LOG SKIDDERS

Ford Log Hog	$2800
Franklin	$3500
Timberjack 230	$10,500
JD 540 A	$11,500
JD 440C-1978	$18,800
JD 640	$24,900

TRACTORS WITH LOADERS

MH 22	$2000
MF Workbull	$3900
Ford 3400	$4900
MF 30	$4900
MF Workbull	$5900
Ford 3400	$5900
JD 301	$5900
IH 504	$5900
Ford 4400	$6500
Ford 4400	$6800
IH 2400B	$6900
IH 2400B	$7200
IH 2500A	$7500
IH 2500B	$7700
IH 2500B	$7900
(2) Ford 515	$7900
(3) Ford 515	$8500
Ford 515	$8600
Ford 515	$8700
Ford 515	$8800
Ford 420	$8900
(4) Ford 515	$8900
Valpadana 4033-4WD DEMO	$10,800
Valpadana 4038-4WD DEMO	$11,300

BACKHOES

IH 3616	$5900
IH 2400	$5900
Ford 3550	$6900
Ford 5550	$6900
JD 300	$7900
Case 580	$8900
(2) JD 400	$8900
MF 30	$9500
MF 50-Cab	$10,500
JD 310	$10,500
IH 2500B	$10,500
IH 2500A-Cab	$10,900
JD 410	$10,900
JCB-Cab	$11,500
IH 3820-4WD	$12,500
(3) Case 580B	$12,500
JD 410-Cab	$13,500
Case 580F-Cab	$16,500
Case 580C	$16,500
(3) Case 580F	Coming In

RUBBER TIRED LOADERS

Hough H25	$1500
Trojan 124-Cab	$7900
Trojan 204-Cab	$8900
Michigan 175A II-Cab	$9,500
Hough 65-Cab	$9,500
Fiat 545-Cab	$16,500
Fiat 345B-1979	$19,500
Ford A62-1980	$25,000
JD 644B	$26,500

DOZERS

IH TD14	$2900
JD 1010	$5900
JD 450	$7500
JD 350 Cab	$9500
JD 350 6 Way	$9500
Case 450B-6 Way	$13,500
JD 450 6 Way	$13,500
Cat D4D-Cab	$19,500
Cat D5-Cab	$19,500
Case 1150B-Cab	$19,500
(5) Cat D4D	Coming In
Case 850 6 Way Cab	Coming In

CRAWLER LOADERS

Case 850	$7500
(3) Case 350	Each $8500
Case 850	$8500
MF 2244-Ripper w/4 in 1	$8500
(3) Cat 933F Cab	$9500
(2) JD 350-Cab-Ripper	Each $9500
Case 450	$9500
Cat 933F Cab-4-In-1	$10,000
(2) JD 450	$10,500
JD 450 B	$11,500
JD 350 w/Hoe	$11,500
Cat 933G Cab Ripper	$11,500
JD 450 w/Hoe	$11,500
MF 200 w/Hoe Cab-4-in-1	$12,500
Cat 951C	$12,900
MF 400-Cab-Ripper	$14,500
Komatsu D31-Cab	$18,500
Cat 941-4 in 1	$21,500
Cat 941-Cab-Ripper	$22,500
(2) Cat 941-Cab-4 in 1	$22,500
Cat 941	Coming In
Cat 951C	Coming In

EXCELLENT SELECTION OF AFFORDABLE USED EQUIPMENT

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or
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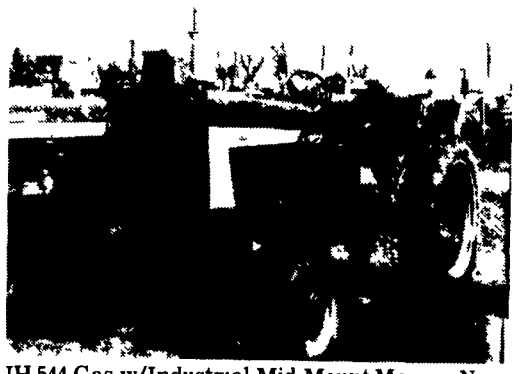
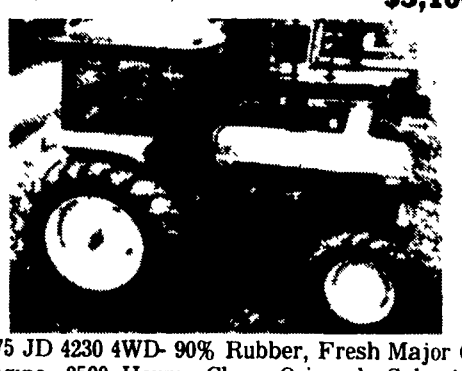


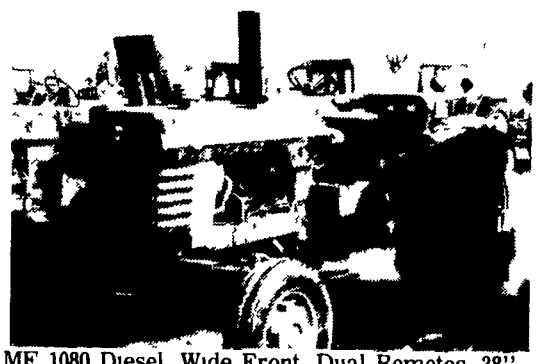
IH 544 Gas w/Industrial Mid-Mount Mower, New Paint, Works Good, Good Rubber. **$3,100**



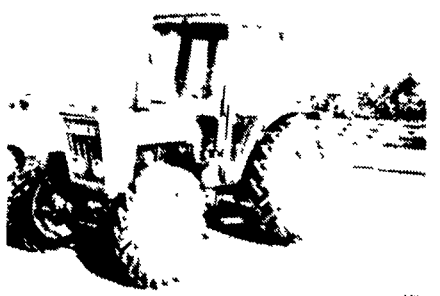
1975 JD 4230 4WD- 90% Rubber, Fresh Major On Engine, 2500 Hours, Clean Original, Cab, Air, Quad., Good Tractor **$17,200**

IH 574 Diesel, WF, 3 Pt., Cab, 2700 Hours, Good Paint, Operating Condition
Special Price $5,200

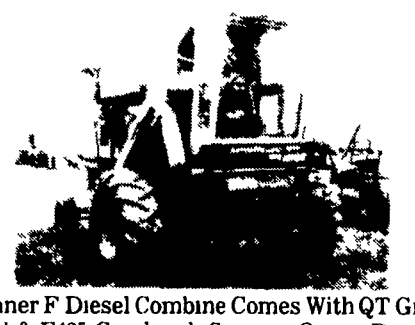
Ford 4400 Tractor Loader, Gas, 3 Pt., PTO, New Paint, New Tires, Power Steering, Wide Bucket, Full Hydraulics.
Don't Miss This One **$6,800**



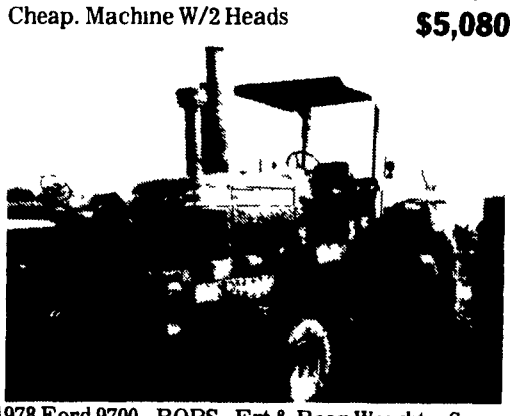
MF 1080 Diesel, Wide Front, Dual Remotes, 38" Rubber, Original Paint, 1972
Don't Miss Out **$2,900**



Ford 4100 Diesel, Factory Cab, 4WD New 12.4x36 Radials On Rear New 8.3x24 Front Tires 2235 Hours, Fair Condition. **$8,500**



Gleaner F Diesel Combine Comes With QT Grain Head & F435 Cornhead. Seasons Over - Price Is Cheap. Machine W/2 Heads **$5,080**



1978 Ford 9700 - ROPS - Frt & Rear Weights, Spin Out Wheels, Runs & Looks Good.
Wake Up- Too Cheap **$7,700**

Schwartz 750 Mixer-Feeder Wagon With Electronic Scales, Fair Condition
$2,650

NEW EQUIPMENT SPECIALS

SITREX P.T.O. TEDDERS
2-Wheel Pull or 3 Pt.
$895

4 Wheel- **$1695**

ROTARY MOWERS
40" 3 pt Heavy Duty $495
4' 3 pt Standard Duty $449
4' 3 pt Heavy Duty $495
5' 3 pt Standard Duty $449
5' 3 pt Heavy Duty $495
6' 3 pt Heavy Duty $695
7' 3 pt Heavy Duty $1395
4' pull Heavy Duty $595
5' pull Heavy Duty $695
6' pull Heavy Duty $895
7' pull Heavy Duty $1495
4' 3 pt Estate $1195
5' 3 pt Estate $1295
6' 3 pt Estate $1695

SICKLE BAR MOWERS
6' 3 pt pitmanless $1495

SCRAPER BLADES
6' 3 pt Heavy Duty $195
7' 3 pt Heavy Duty $225

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9 Cu. Ft.-3 Pt. $595
12 Cu. Ft.-3 Pt. $695
20 Cu. Ft.-3 Pt. $795

STONE RAKES
6' 3 pt $495
7' 3 pt. $550
8' 3 pt $595

HAY TEDDERS
2 Wheel Pull PTO $895
2 Wheel 3 pt PTO $895
4 Wheel Pull PTO $1695
4 Wheel 3 pt Ground $465

HAY RAKES
4 wheel 3 pt $465

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3 pt PTO 30" $495

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34" 3 pt. $875
42" 3 pt. $875
60" 3 pt. $1275
66" 3 pt. $1375
72" 3 pt. $1475
82" 3 pt. $1975

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3 pt snow & dirt bucket $695

SEEDERS
PA 100 3 pt $275
PA 250 3 pt $285
PA 300 3 pt $295
PA 400 3 pt $395
PA 500 3 pt $450

LANDSCAPE BOXES
3 pt 5'6" $495
3 pt 6' $495
3 pt 7' $595

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1986 1 ton-9' Bed $695
1986 4 ton 14' $1495
1986 4 ton 16' $1595

POST HOLE DIGGER
3 pt 6", 9", 12", HD $495

CHISEL PLOWS
3 pt 9 tooth spring loaded $595

DIRT SCOOPS
3 pt Reversible $395

POTATO PLOWS
1 row 3 pt $95

DISC HARROW
5'6" 3 pt 18" Combo $495
6'6" 3 pt 18" Combo $495

SUBSOILERS
3 pt 1 shank HD $369

BALE MOVERS
3 pt 3 tine HD $379

FORKLIFTS
3 pt tilt cyl HD $2495

WAGONS
6 ton $450
8 ton loaded $550
10 ton loaded $625

CULTIVATORS
1 row 3 pt $149

BOOM POLES
H.D. 3 pt $149
Standard 3 Pt. ..... $ 79

COMBINE SALE
All Combines Have Cabs

- White 8600-D-QT w/Grainhead $8680
- JD 3300 D-R Screen-QT-Base $7420
- IH 615G-R Screen-QT w/Grainhead $7850
- White 7300 G-QT w/Grainhead $7850
- Gleaner F Diesel w/Grain & 435 Corn $5080

CORN & GRAIN HEADS AVAILABLE

100 COMBINE CORNHEADS

HARVESTER HEADS (75 In Stock)

LOADERS
Loader Off D.B. 990
Freeman Off 880 Brown
AC Off 1600
Souders Loaders
IH 2250 Loader
IH 2050 Loader
JD 158 Loader
Loader Off 800 Ford
IH 2000 Off 706
Loader Off 4000 Ford
Loader Off 30 Ferg
JD 47 Loader
JD 48 Loader

CORNPLANTERS
IH 2X Fast Hitch
Ford 6X Pull
JD 246 2x3 Pt.
IH 56 - 2 Row
Ford 2x3 pt.
MF 2x3 pt.-NEW
Oliver 2x3 pt.

ROLLBARS & CABS
IH 2 Post w/Roof
Case 1070 Cab
AC 7000 Rollbar
JD 4020 Cab
DB 1200 Cab
(30) Combine Cabs
Case 990 Cab
AC 7030-7050-Cab
MM G1000 Vista Cab
Ford 4000 Cab
Ford 6600 Cab
JD 4320 Cab
Ford 9600 Cab

BALERS
Extra Throwers
JD 214 Wire Tie
NH 851 Round
NH 67

NEW IDEA UNI SYSTEM ATTACHMENTS
731 4x40 Cornhead
743N Cornhead
766 Pickup Head
Extra Grain Heads
728 4x30 Corn Head
3x30 Harvester Head
705 Diesel Tractor
QT Throat Assy
710 Combine
725 3RN Cornhead

CHISEL PLOWS
JD 10' Pull
Landoll 10' Pull
5 Tooth V Chisel (3 pt)
1 tooth 3 pt subsoiler
5'-8'-9'-10'-12'
-14'-16' 3 pt
Tooth V Chisel

DISCS
IH 10'-11'-13' Transports
JD Plowing Disc-11'
KK 6' 3 pt
IH 480 w/Wings-24'
IH Cub Disc
JD 10' RWA Transport
Bush Hog 16' w/Wings
JD KBA 8' pull
JD 310 Transport
Wilbeck Offset-11'

SICKLE MOWERS
JD 9 3 pt
Ford 3 pt.
IH Cub
IH FH
Sitrex 3 pt. dynabalance

HAYBINES
NH 478-7'
Hesston 1070-7'

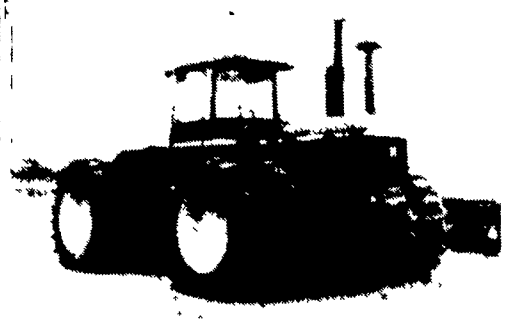
PLOWS
AC 3xSC
JD (3 pts) - 2x-3x
JD (Semi) - 4x-5x
JD (pull) - 2x-4x Reset
JD 1x Reset 2500 Attach
Oliver 3x-3 pt
Oliver (pull) 3x
Oliver (semi, Reset) 4x-5x
IH 1x (MTD)
IH 2x, 1 pt, FH
IH 3x 3 pt
IH 550 5x (Semi)
IH 710 5x (Semi)
Ford 2x (3 pts)
MF 880 5x (Semi)
MF 2x Rollover
Oliver 4x3 pt
JD 5x Rollover
Oliver 3x Rollover
JD 3X Rollover
IH 3X Rollover
IH 4X Rollover
AC 3x3 pt
JD 7x Reset
JD 4x Pull
OL 2x Rollover
IH 3x FH
IH 3x FH Disc Plow
Ford 3x3 pt
Case 2x3 pt.

MISC. EQUIP.
Spike Harrow
IH Cub & 140 Attachments
Hesston 10W Mower
8' FH Blade
12' Lime Drills
IH Side Dressers
8' to 12' Spring Tooth Harrows
Tandem Axle Fert Spreader
Hesston 30 Mover
(3) Bale Wagons
IH 5100 Drill
(2) Hesston 10 Stackers
Danuser PHD
Fox 660 Blower
IH 56 Blower
Gehl 95 Grinder Mixer
(3) Cornpickers
(7) Harvesters
Transplanters
Hay Rakes
Cornshellers
JD 300 Elevator
Grain Auger-6"x32'
9' & 12' Cultipacker

ROTARY MOWERS
JD 5' Pull
Ford 7' Pull
Woods 6' Offset, 3 pt
Bush Hog 4X Stalk Chopper
Woods C80-3 pt
Woods 5' 3 pt.

CULTIMULCHERS
JD 930 - 12' 3 pt.

CULTIVATORS
AC D14-D15 2x
Ford 2x3 pt
JD 2x (H & 420)
JD RM6
JD 6x Frt Mtd
IH Cub & Super A, A, C
IH C-H-M 2x Frt
IH 461 Ftr Mtd 4x



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$44,000.00

8640 Model, 600 hours, like new with all factory updates

Above equipment in like new condition
Price negotiable as package deal

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FARM MACHINERY SALE!

Call Now For These New Year Specials

Stock No.	Self Propelled Haybines	Jan. Sale Price
UB0142	NH 1495 (Diesel) Hydr Dr w/Cab & Air	$15 995 00
UB0090	NH 1495 (Gas) Planetary Dr w/Partial Cab	10 900 00
UB0128	NH 1495 (Gas) Pla SOLD Dr w/Partial Cab	8 995 00
UB0083	NH 1469 (Ford Gas) 9' Cut w/Partial Cab	4 495 00
	JD 830 (Gas) 12' Cut No Cab	1 995 00
	Pull Type Haybines	
UB0034	NH 495 12 Haybine w/Lat Transport	3 995 00
UB0119	NH 495 12' Haybine w/Lat Transport (As is)	2 295 00
UB0110	NH 489 9' Haybine (As is)	2 995 00
UB0114	NH 479 9 Haybine	2 495 00
UB0134	NH 479 9' Haybine	2 495 00
UB0140	NH 479 9 Haybine (As is)	1 895 00
UB0067	Hesston 1010 Hydro Swing 10	2 295 00
UB0035	Hesston PT 10 9 Haybine	1 495 00
	Balers	
UB0118	NH 855 Round Baler w/Auto Wrap	8 495 00
UB0019	NH 320 Baler w/#70 Thrower	5 895 00
UB0131	NH 320 Baler w/#70 Thrower	5 495 00
	NH #70 Thrower (Fits 320 Baler)	1 295 00
UB0139	NH 276 Baler w/#58 Thrower (As Is)	2 695 00
UB0127	NH 282 Baler w/#62 Thrower (As Is)	1 995 00
	Rakes	
UB0133	IH 35 Rake	1 095 00
UB0132	Vicon 3 Pt 4 Whl Rake	395 00
	Uni Equipment	
UA0019	709 Uni Tractc SOLD ar Whl Assist & Wgt	17 900 00
UA0053	705 Uni Tractor w/767 Super Chopper 766 Hay Pickup & 763 3 Row Head	11 900 00
UA0012	760 Uni Harvester (As is)	395 00
	2 766 Uni Hay Pickup (As is)	495 00
	2 762 Uni 2 Row Head (38") As is	595 00
UB0055	741 Feeder House (As is)	1 195 00
	Pull Type Harvester & Heads	
UB0092	NH 892 Harvester w/New Knives	5,995 00
UA0063	NH 770 Harvester	2 295 00
UB0143	NH S717 Harvester	1 295 00
UB0120	IH 830 Harvester w/Hay Pickup & 2 Row Head (30") As is	2 495 00
UB0136	IH 830 Harvester w/Hay Pickup & 2 Row Head 30 ' Also Has New Knives to be Put in (As is)	2 495 00
UB0048	NH 717 Harvester (As is)	295 00
UB0093	NH 880W Hay Pickup Head	995 00
UA0040	NH 880 R 2 2 Row Corn Head (38")	795 00
UA0064	NH 717 W Hay Pickup Head	695 00
UA0065	NH 717 R 2 2 Row Corn Head (38")	695 00
UB0144	NH 717 R 2 2 Row Corn Head (38)	695 00
UB0135A	JD 2 Row Corn Head (30 ')	995 00
UB0135D	JD Hay Pickup Head	995 00
UB0135C	JD 1 Row Corn Head	295 00
UA0030	NH 741 1 Row Corn Head	295 00
	Misc.	
UA0026	Bear Cat 11 Packer	495 00
UA0050	IH 56 4 Row Corn Planter (38 ')	1 295 00
UA0052	IH 55 4 Row Corn Planter (38)	1 195 00
UA0059	MH 35 Combine	795 00
UA0067	Farmec Gravity Bin w/Gear	395 00
UB0106	M&W 12' Field Cultivator	1 295 00
UC0043	NH L445 Skid Loader w/Bucket & Rebuilt Engine (30 HP)	7 495 00
	IH 2A Hay Conditioner	100 00
UC0044	NI 213 Manure Spreader w/ 3 Beater Reconditioned	1 895 00
UC0039	NI 213 Manure Spreader w/Single Beater w/ Hyd Endgate	1 595 00

Coming In...

NH 1469 Haybine 1 Year Old
NH 326 Baler 1 Year Old
NH 1037 Bale Wagon 2 Years Old
NH 489 Haybine
NI 705 Uni Tractor
NI 218 Manure Spreader w/Endgate

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USED EQUIPMENT

SPREADERS
JD 790 Spreader, $995
NH 791, $2500
NH 510, $750
JD 40, $995
1257 Demo Hedlund Martin, $4500

TILLAGE
JD 3 BT 14" Plow
JD KBA 9 Ft. Disk
JD 22 Ft Wheel Harrow
AC 4 BT Plow
IH 3 BT Plow

COMBINES
JD 55
IH 105
JD 344 corn head w/harvester adaptor plate, $2,500
Walsh Sprayer, $595

LOADERS
OMC 320 Skid Loader, $3900

TRACTORS
JD 2520 Dsl., $6500
JD 3010, $5500
JD 2840, $11,500
JD 620 w/237 mounted picker $3500
JD 2520 Gas, $5800
Set of 34" Duals w/Bar Clamps, $450
Set 36" Wheels

HAY & FORAGE
NH 479 Haybine, $1200
JD 38 & 35 Harvesters
JD 510 Round Baler $5100
JD 100 Stack Mover $1700
Hesston 5800 Round Baler, $3200

bobcat

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Lawn & Garden Equipment

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1979 F150 Ford 4 WD, Electric, 4 Way Snow Plow, Very Good $4,800
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1964 Mack B61 SA Tractor, Lot of Crome, All New No Rust Radial Tires, 613 Duplex, Excellent $8,500
1973 Ford F250 Blue Camper Special, New Tires, Brakes, Exhaust $4,500
1965 Ford F600 12 ft. Box Truck, Hydraulic Gate $1,500
1982 Ford F250 300 Six, 4 sp. . . $6,000
1973 White T/A Tractor 6 Sp. Road Boss, 290 Cumm Eng. $5,900
1974 Jeep 4 WD Hard Top $2,900
1967 White 4000 10 Sp. RR Hendrix 250 Cum V6000, 50,000 on Eng. T/A $5,000
1965 IH Tow Truck 5/2 549 35 Ton Wench $4,500
1600 IH Fuel Truck 1000 Tank Good, Cab Poor $1,000

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USED EQUIPMENT

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IH 1466 w/Cab & Duals
IH 806 Gas, needs work
IH 784
IH 706
IH 560 G
IH 460 Utility Gas
IH 674 D
IH 656 D
IH 560 D
IH 544 U
IH B414 D
IH BN
IH H
IH M
MH 44 w/Corn Picker, very nice
MF 1105
MF 2675
MF 1080
JD 4010 D
JD 4620
Case 1070
Oliver 770 D
(2) Cub
Ford 901 w/2R Picker
Ford Jubilee
Farmall A
Case 730 Dsl., 3 pt.
David Brown 990 w/Loader
Farmall Super M
Case Vac

CORN PLANTERS
IH 800, 4R · IH 295
IH 800, 6R · IH 449
IH 400, 6RN No-till, Liq.
IH 400, 6RW, No-till, Dry
IH 400, 4RN w/ No-till, Dry
JD 7000, 6RN No-till
JD 1440, 4RW No-till
JD 494A
AC 600, 4RN No-till
White 5400, 4R
White 543, 4RN No-till
White 543, 4R Plate
IH 56

BALERS
NH 276 w/Thrower
IH 430 · JD 24T
IH 440 · IH 47
IH 37
Hesston 10 Stacker
MF #12 w/Thrower

COMBINES
IH 1460 · IH 82 Pull
IH 1440 · IH 303
IH 863, 6RN · IH 203
IH 844, 4RW · Case 600
IH 810-13 · IH 1460
IH 820-16 · IH 963, 6RN
IH 227, 2RN C H
IH 715
MF 82, very nice
MF 4RN & 4RW Corn Heads
JD 55 w/Cab, Sq Back
JD 45 w/Cab, 10' Platform, 2R Corn Head
JD 334, 3RN Corn Head
JD 12' Platforms

HARROWS
IH 475, 12' · JD KBA 8
IH 401, 12' · IH 9A 9'
IH 370 12' Disk · 9 Packer
BH 10 · IH 37 8
JD 12 BWF · IH 47 13
Niemeyer 3 pt 8 Power Harrow
Brillion 12 Field Cultivator

CORN PICKERS
NI 324, 2RW · NI #10, 1R
NI 323, 1R · NI 300, 2R
NI 314, Sheller Attachment

GRINDER MIXERS
OMC 117 · NH 357

SPRAYERS
Walsh 200 gal.
Walsh 500 gal
Walsh 300 gal.
KUKer 300 gal.
Walsh 165 gal. 3 pt

MOWERS
IH 222
IH 100
NH 450
Woods 48" for MF 205
Bush Hog 60' 3 pt

GRAIN DRILLS
IH 10, 16x7
IH 13x7, Steel Whls
Tye 80 No-till
JD FB 13x7
JD 15x7
IH 13x7 Steel Wheel
Oliver 13x7

BLOWERS
Sprme 56 · Fox Table, PTO
IH 56 · Gehl 99
Dion #14 · Badger 54
Dion 60 · Badger 98
NH 30

HARVESTERS
IH 830 · 2RW Corn Head
IH 555 · 2RN Corn Head
Gehl 600 · Cutter Bar
Gehl 300 w/2RN
Papec 180 · Fox 3000
Fox 1000 · Fox 546
Fox 2000 · Fox FA
JD 34 Fg w/1R C H
JD 2RW C H
JD 3300 Fg w/2R C H

LOADERS
NI 506
IH 2050A
KW for IH 284

MANURE SPREADERS
NI 212 · NI 354
NI 213 · NH 518
NI 214 · IH 550
NI 218 · Star 930
NI 224
Better Bilt 2600 Gal. Liq. Manure Tank
Clay 800 gal. Vacuum Tank
Farmhand Flail
MF Manure Spreader
NH 676 · Hawk Bilt 207
NH 676 S · HB 257
NH 790 · HB 357

SKID LOADERS
(2) Case 1830, very nice
Case 1816 B
OMC 345
OMC 440
IH 4130, 850 hrs

WAGONS
Gehl 920, 16'
Gehl 910 Fg Box
Gehl 710
Gehl 610, 14'
Grove 16'
Grove Rear Unloading Bale/Forage
Couhoun 620, 16'
IH 110
Turnco Gravity Box
Bale Wagons
JD 122

MISCELLANEOUS
Winpower 12T-2 Alternator
NI 109, 3 pt Fert. Spreader
IH 6' Blade
Ber-vac 51" 3 pt Snow Blower
NI 36' Elevator
IH 18' Elevator w/Cross Conveyor
Mayrath 6" Transport Auger
Pequea Hay Tedder
Wic 7HP Bale Chopper

FLAIL CHOPPERS
IH 5 · Brady 722
IH #8 · Brady 121

PLOWS
IH 311 3x14
IH 55 Chisel Plow
IH 55, 10' Pull Chisel Plow
JD 345, 4x16
IH 550, 5x16
Ford 4x16
MF 3 pt. Chisel Plow
MF 880 5x16 Auto
White 508 Plow, 4x16
BH 3 pt 52" Tiller
IH 710, 3x16

NI UNI EQUIP
NI 838 Husking Bed
NI 841 Feeding House
702 D, ex · 735, 3RN
760 Fg Harv · 702 D
761 Hay PU · 729 A Shel
767 Har · 727 Husk
713 S Platform · 766 PU
717 Combine · 720 2RW
710 Com · 730 4RW
844, 4RW · 725 3RN
NI 768 3RW/N Corn Head

WINDROWERS
IH 1190 · OMC 229
IH 990 · Gehl 108
IH 225 · Gehl 440
NI 290
AC 904
NH 1469 SP
NI 272, 7' Cutditioner
NI 270 Cutditioner
Hesston 1214 Swing Tongue

COMING IN...
Miller 11' Offset Disc
OMC 1700 Skid Loader
Case 1740 D Skid Loader
Zook 24' Manure Elevator
IH 725, 1400 Vacuum Tank
IH 240 F Tractor
IH 350 Tractor U
JD B Tractor

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16', 21', 27' lengths available. A great feature for feeding cattle in meadows or feed lots. Can be used for feeding round bales.

If old gas tanks are used for feeder wagon bottoms, they should be sand blasted. If not, the gas and rust may result in sick cattle or even death. Be safe and buy from us as ours are sand blasted before being painted.

Custom Built Cow Trough Dividers - Gutter Grates & Cattle Guards

* Also Headlocks & Rack Wagons

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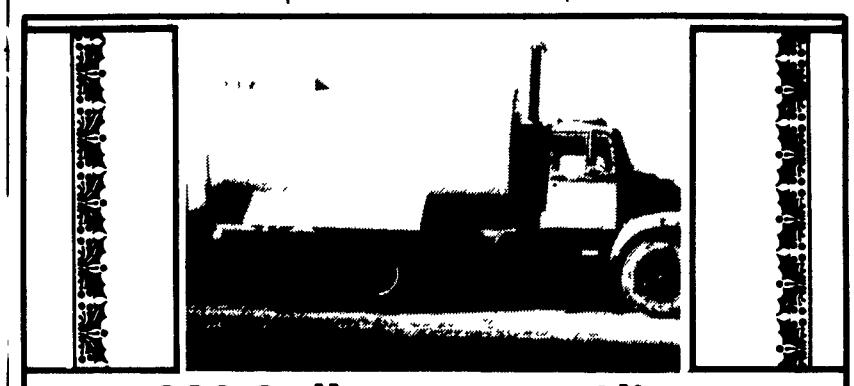
Adin L. Frey - Over 20 yrs. on the farm experience with irrigation.



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Complete TA assemblies for 706-1586 are priced at $595 and come with a Dana Co Heavy Duty Sprag instead of the usual IH sprag **The Dana sprag is guaranteed for 2 years against failure.** Sprag kits (includes sprag gear Dana sprag, and piston carrier) and all items for rebuilding your own TA are available to qualified persons Ramps and carriers for the older style TA's (as in SMTA, 340 560) are priced at $150 each and carry a 90 day guarantee We have all the parts needed to rebuild your TA in stock at prices that will save you money We also have a shop available for complete TA installation Or you may split your own tractor and bring the center housing to us, which we can rebuild while you wait (approx 4-6 hrs) We also stock New and Rebuilt Water Pumps, Dynlife Clutches Pressure Plates and PTO Drive Gears (Spline fit into pressure plates) for most IH tractors and combines

We are in need of TA & clutch cores for rebuilding purposes. If you have not returned your cores, please do so or call us for pickup.
Dealers: We are paying cash for cores. If you have quantity, we will pick up.

Dealer Discounts Available

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Dismantling Combines for parts over 400 all makes and models Call before you come.

All Combines Sold— free parts for one season if in our parts lot.

IH: 915, 815, 315, 205, 203, 503, 403, 303, 93, 91, 151, 101, 141, 127, 125, 82, 76, 74. JD: 7700, 6600, 4400, 105, 95, 55, 45, 40, 30, 25, 12A. MF: 510, 410, 300, 205, 35, 92, 82, 72, 90, 80, 70, 60, 27, 26. AC: Gleaner, F, L, M, K, G, E, C, C2, A, 60, 66. Oliver: 545, 535, 525, 430, 40, 35, 33, pull type. NI: Uni, 710 Combine, Huskers, 705, 702, 701, Combine shellers & harvesters. Ford. 622, 630, pull type. Case: 960, 700, 660, 600. NH: 975, 985. MM: 5297, 3496, MM Uni, White 8600, 7300, Massey 750D, Straw Spreaders & Choppers.

COMBINES

IH 1440 Axle Flow w/1100 hrs., 28x26 tires, 13' flex head
AC Gleaner F Gas w/2 heads $5,875
1977 MF 510 Diesel hydro w/big rubber, air weights, grain saver & heads, just traded, real nice.
NH TR 85 w/Cat diesel, air, SOLD flex grain & corn head, 893 hrs., $16,500.
JD 3300 gas, grain & corn head
1984 Gleaner F2 w/950 hrs. 23x26 tires, 4RW of 4RN, 13' flex, real nice.
1976 Gleaner L w/big rubber, 6R 30", 4R 38", 13' grain or 16' grain A-1 always kept in, $18,500
1977 JD 6600 side hill w/6R 30" & 14' grain
Massey 300 w/grain & corn head
1983 Gleaner F2 diesel w/black 4 row corn & black 13' flex grain head, 1,251 hrs., cab, air & radio
1977 MF 510 diesel, quick tach w/13' grain & 4 row 30" corn, cab & air & grain saver
1979 MF 550 dsl, hydro, 13' grain & corn, $12,000
1976 Gleaner FKS dsl. 13' black grain & corn head, real nice, $12,000
Gleaner F gas w/grain & corn, $6,000
MF 510 dsl, quick tach w/grain & 4 or 6R corn
Massey 82 w/grain & 2R corn, $1200
Massey 72 w/grain, $1200
MF 760 6 cyl. turbo w/grain & 6R 30" corn, $14,500
Massey 410 dsl. quick tach, cab & air, $4,000
2 C-2 Gleaners w/4RW for 4RN & grain head
Gleaner G, gas w/4R & grain head, $5,000.

JD 4400 diesel w/rigid grain head, $7,500.
IH 915 diesel, turbo, hydro w/grain & 4 or 6R head, $13,000.
IH 403 hydro w/4R 30" & grain, $5500
MF 510 diesel quick tach w/grain, $5500
Gleaner E3, grain & 2R, new motor, $4000

Your Choice $2500 Each
3 Case 600, 10' Grain & 2R Corn
2 IH 105 w/10' Grain & 2R Corn
2 JD 45 w/10' Grain & 2R
JD 55 w/12' Grain & 2R

HAYBINES & RAKES

Hesston 10' hydro-swing center pivot hitch, $2850
IH 990 9', $1375
NI Rotobar Rake, $850
3 JD Rotobar Rakes, $450 to $675
Gehl 9', $875
IH [illegible]el Rake, $625
NH [illegible] $3500
NH 474, 7', $3750
NH 256 Rake, $1250
IH Rake w/front dolley wheel, $785
NH 477, 7', $2150

ROTARY MOWERS

3 pt 6,7 & 8'
Also pull types

DISC HARROWS

8,10,12 & 14' Wheel Disc
3 pt 7'
7 & 8' drag discs

SPREADERS

NH tank w/hyd lid
NI 213 PTO's

GRAIN HEADS

8, 10, 11, 12, 13, 14 & 15'

TRACTORS

JD 3010 Dsl Narrow Front
Ford 860 rear wts. & PS, loader & snow plow
JD 4010 Diesel $3,875

Farmall H, $750
Farmall H, $875
Farmall 400 gas, fast hitch & power steering
AC D-19 Dsl. w/WF, as is.
AC C w/Woods belly mower $1500
IH 1066 Dsl., cab, dual PTO, 3760 hrs w/complete motor overhaul, rebuilt injector pump, new oil pump, will show bills, $9500.
Farmall Si SOLD w/WF
Farmall C, real nice, $1250
Ford 3000 Diesel, $4000
Farmall Super C w/hyd. & pulley $975
Massey 1080 D, $4500
Ford 6000 Diesel $2475
Massey Pony Pacer w/1R cult. & 1 btm. plow $1250
Farmall 560 Diesel $3450
AC D17 Diesel snap coupler $2000

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AC C
IH 340
Massey 101, 30 & 33
AC D17
AC D19
WD 45
WD
Farmall C or Super C, 200 & 230
Ford 6000 WFE

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Post Hole Diggers
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Box Blades
Discs
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Potato Plows
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Fert. Spreaders
Cement Mixers

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Ford 4000 Gas Industrial Loader and Backhoe, like new tires $5,500.

Farmall Super C $1,675.
Farmall M w/PS $1,850

CORN PICKERS

NI 2R 38" Pull Type
NI 701 or 702 husking unit w/2 or 3R corn head
NI late 323 1R
NI 324 2R 38" w/super sheller, used 1 yr like new, $3000
Oliver 73 2R 38" pull type $7[illegible]0
IH 1PR pull type $975
NI #7 1R pull type $700.

PLOWS

IH 540 4 bottom 16"
IH 710 5 bottom 18" auto. reset
JD F145 5 bottom 16"
2 IH 550 5 bottom 16"
Oliver 546 5 bottom 16"
JD 1350 4 bottom 16" swing hitch.
(15) From 2-7 Bottom

FORAGE HARVESTERS

NH self propelled w/2R & pickup head
IH 830 3R corn & p u head
IH #8 flail chopper
AC 720 2RN & pickup $750
JD 34 1R & pickup $875

MISC.

Century 500 gal. 12R PTO trailer sprayer, real nice
NH Flail Attachment for Baler to cut corn fodder $300.
2 Gravity Wagons
IH fast hitch balanced head mower
Sickle bar mowers, 3 pt. semi & trailer types.
IH Loaders to fit C, Super C, 200, 230, H, M, 300, 350 & 300 & 350 utilities
Ferg. loader w/hyd. bucket & front pump $650

COMING IN

IH 203 Combine w/grain & 2 R corn, $2500

DISMANTLING TRACTORS FOR PARTS
Harvesters and Corn Heads for Parts

IH 1256, 666 Hydro, 806, 706, 660, 656, 560, 504, 404, 460, 450, 400, 350, 300, 340, 240, 230, 200, MTA, M, H, C, BN, A, Cub, F30, F20, F14, F12 JD M, 4010, 3010, 2020 Dsl, 2010, 720 D, 70, 60, 50, A, B AC 180, D17, WD, WC, CA, C, B MF 1155, 90, 85, 444, 333, 44, 33, 30, 20 Case 400, 300, DC, SC, VAC Ford 6000, 4000D, 960, 860, 800, 8N, 9N Oliver 1800, 88, 77, 70, 60 Crawler D2 Cat & Oliver MM 5 Star, R, Z, E3 Coop

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THE 2900

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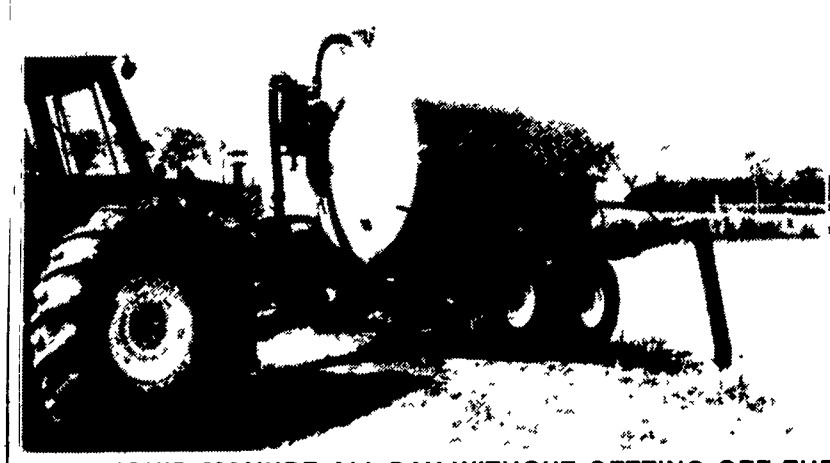
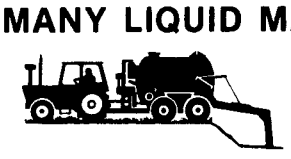
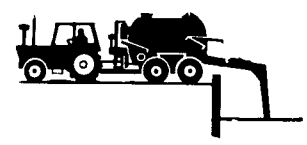


HAUL LIQUID MANURE ALL DAY WITHOUT GETTING OFF THE TRACTOR SEAT USING THE SLURRY BUGGY EASY LOADER.

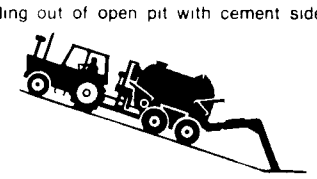
THE SLURRY BUGGY IS DESIGNED FOR YOUR MANY LIQUID MANURE HANDLING JOBS.



Loading out of pit with ground bank



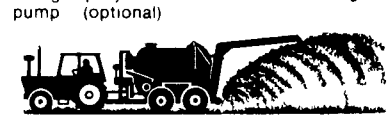
Loading out of open pit with cement sides



Backing down ramp to load using 8 boom

Using 6" side valve and hose for pumping out open pits or under building

Using top hydraulic manhole for loading with pump (optional)



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Pequea 7' Tedder, PTO, Like New $1,050
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New IH 274 w/cultivator

New JD 2150
JD 4630 w/4 post roll guard
JD 4440, cab & air
JD 4430, cab, air, quad range
JD 4230, cab & air
JD 2510
JD 4320, cab
JD 4030, 4 post, roll guard
JD 2940 w/front wheel assist
JD 2940 w/cab
JD 2940 w/loader
JD 2840
JD 2640 w/146 loader, (sharp)
JD 2510 Gas
JD 4240, power shift
JD 4240 w/cab & air
JD 3020 gas
JD 4000
JD 4020, new tires
JD 400 diesel backhoe loader
IH 3500 backhoe loader
IH 1086, cab & air
IH 1066
IH 766 w/cab
IH 806 diesel, excellent

Ford 7000
Ford 6600, like new
Ford 5000 Gas
Ford 4610, like new
Ford 4000 SU
Ford 3600
Ford 3400 w/Loader
Ford 2000
Ford 555 w/loader & cab
Ford 335 w/loader
AC 210 diesel
AC 185, sharp
AC 180, gas
AC 200, like new
MF 265
MF 205, 4WD
MF 50C w/loader
MF 135 diesel
MF 20 w/loader
David Brown 1200
Kubota 4000 w/loader
3 pt. hitch backhoe, like new
JD 2010 Forklift
Int. 7000 Forklift 28' Lift

New Gehl 360 Skid Steer Loader

USED PLOWS

Int. 5 btm. 16" spring reset plow
White 6 btm. 16" plow
White 4 btm., auto. reset plow

Large selection of 3 to 7 btm. plows
Int. 3 btm. rollover plow

GRINDERS & MIXERS

Gehl 65

USED COMBINES

444 JD corn heads
443 & 643 corn heads
JD 1978 4400, diesel
MF 410
Large selection of JD 2, 3, 4 & 6 row corn heads
JD 6600 diesel, rotary screen

JD 6600 hydro, rotary screen
JD 4420, like new
JD 3300 diesel, sharp
JD 435N corn head
JD 435W corn head

USED PLANTERS

JD 494A
JD 7000 4 row Dry fertilizer

JD 7000 6 row conservation, liquid
JD 7000 4 row liquid, like new

Used Moore no-till grain drill

USED HARVESTERS

Fox Max II w/3 row head, cab & air
Fox 2 row snapper head
Fox Custom 90
NH 718, sharp

NH 3 pt. hitch chopper w/1 row head
Field Queen 3 row wide corn head

Gehl flail head, excellent condition

HAY EQUIPMENT

NH 472 haybine
Gehl 1090 haybine
Gehl 1500 Round baler
New NH 315 Baler
NH 276 baler, excellent
NH 311 baler, like new
New JD 327 Baler
JD 346 baler, excellent

NH 315 wire baler, nice
NH 273 w/thrower
M-C 7' rotary sythe, used on 100 acres
Large selection of used rakes
NH 1010 Stacker Bale Wagon
NH 1032 Stacker Bale Wagon

MISCELLANEOUS

1974 Chevy truck w/16' grain body & hoist
JD 58 loader
Int. 510 grain drill
Large selection of smaller discs
NI 2 row narrow, 12 roll bed
NI 323 1 row picker
NI 2 row wide, 12 roll, $3,000.

Kewanee hydraulic fold 18' disc
Kewanee hydraulic fold 18' roller harrow
Big V snow plow 12' wide
1979 Int. S-1954 w/DT 466 diesel engine, cab & chassis.

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Case IH

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USED EQUIPMENT

USED TRACTORS

MM G-900
JD A w/cultivator
JD Model B w/Cultivators
Farmall 656 Hydro
Case 1270
Ford 9N

IH 444, Gas
IH 684, Nice
IH 1066 w/Cab

USED COMBINES

Int. 1440 Combine
Int. 715 Diesel w/4 row narrow head, nice
MF 750 w/grain head
Int. 715, late model

USED EQUIPMENT

Int. 710 5 F Auto. Reset Plow
Int. 720 5F Plow w/On Land Hitch
Int. 720 6F Plow
Int. #56 Blower
Int. 440 Baler w/Thrower
900 Badger Blower
IH 510 16x7 Comb. Grain Drill
13' 3 Pt. Chisel Plow
JD 214 Forage Box

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TRACTORS

JD 4020 D w/WFE
JD 4010 D w/WFE
JD 3010 D
JD 3010 repainted
JD 720
JD 60
Farmall 460 D
Farmall 400 G & D
Farmall C
Ferguson 50 w/loader
Oliver 1855 D, new rubber
Oliver 1550
Oliver 500 D
AC 7080 D w/cab, air/heat, excell!
AC 7060 D PS w/cab, air/heat, only 1400 hrs !
AC 7050 D w/cab, air/heat
AC 7030 D w/cab, air/heat
AC 7000 D w/cab, air/heat
AC 6080 D 4WD w/460 Loader, like new
AC 6140 D w/front end loader
AC 190 D, excellent!
AC 185 D, excellent!
AC 180 D
(2) AC D19 D
AC D19
AC D17 D
AC WD w/loader
AC WC
AC CA

COMBINES

JD 3300 Cab w/Air & Heat, 10' Grain Head, 238 Corn Head, excellent
JD 45 w/both heads
AC Gleaner N5 D w/cab, 15' grain & 630 corn heads.
1978 AC Gleaner M2 D w/cab, air, 13' grain & 430 corn heads.
AC Gleaner M D w/hydro, 13' grain & 438 corn heads.
(1977) AC Gleaner F2 D w/13' grain & 438 corn heads.
AC Gleaner E w/cab, 10' grain & 238 corn heads
AC Gleaner F w/cab & both heads
AC Gleaner CII w/4-row corn head
IH 315 w/cab, grain & corn heads
MF 750 D w/cab, air/heat, & 630 corn head
NH 975 Gas w/cab & both heads
NH 890 R2 Snapper corn head
NI Uni-System 701 w/710 power unit, 10' grain & 2-row wide corn heads
NI Uni-System 702 w/717 combine, 4-row corn head
NI 702 Power Unit w/727 Husking Bed & 724, 3RW Corn Head, excellent
NI 323, 1R Picker, like new
NI 323, 1R Picker
JD 346 Baler Wire Tie, w/Kicker & Excellent

MISC

Behlen Grain Dryer w/engine
MF 246 Loader w/80" Bucket
Uebler 810 Silage Cart, 35 BU, only 2 yrs.
Weaverline 224 Silage Cart, 30 BU., w/automatic charger, rebuilt!

TILLAGE

Oliver 6B Plow, semi-mount
Ford 3B Plow, 3 pt.
Brillion 961 8' Seeder, pull type
IH 11 Shank 3 pt. Field Cultivator
JD 16' Cultimulcher
Leinbach 6' Disc, 3 pt.
IH 9' Disc, pull type
JD 1000 12' Disc w/Trans Harrow
JD 9' Transport Disc
JD 17 Disc Grain Drill

MANURE SPREADERS

NH 676 w/hyd endgate, 320 BU
NH 675 w/endgate, 300 BU
NH 518, 220 BU.
NI 214, Liq. pan, 210 BU A-1!
NI 218, w/hyd Endgate, Tandem, 300 bu
(3) NI 213, 177 BU
IH 550 w/endgate, 200 BU

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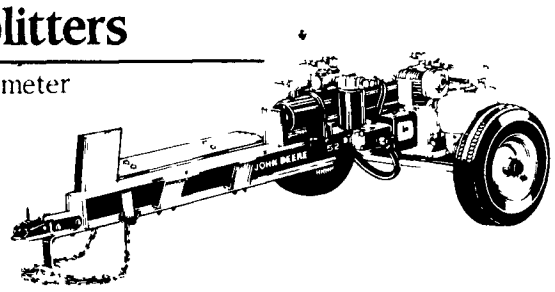

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235 Disk Harrow, 18'6", center fold dura cush
215 Disk Harrow, 12'10", dura cush
215 Disk Harrow, 12'10", w/cushion gang att
115 Disk Harrow, 11'5"
1000 Plow, 3-pt 2B14"
2800 Plow, Semi-mtd , 5B18" spring reset
970 Roller Harrow, 12'
940 "S" Tine Field Cult , 13' drawn
1010 Field Cult , 12½' integral

NEW MANURE HANDLING EQUIPMENT SPECIALS

JD 95 Rear Mtd Blade, 9'
JD 115 Rear Mtd Blade 9'
JD Hyd Loaders, 148 245 260
JD 465 Flail Spreader, R H Delivery
JD 450 Hyd Push Spreader w/endgate
NI 351 Spreader w/sngl btr & hyd endgate

JDF P Finance Terms-Approved Credit

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	Tag #	Sale Price
JD F125 4 16 3 pt	#3777	$ 850
White 348 3 18 sp reset	#3657	$2195

CHISEL PLOWS

	Tag #	Sale Price
IHC 3 pt 9 cush stds	#3445	$1095
IHC 3 pt 7 rigid stds	#3209	$ 895

DISK HARROWS

	Tag #	Sale Price
JD 315 12 10	#3506	$5500
Athens 131 tandem 28 bl	#3299	$1595

GRAIN DRILLS

	Tag #	Sale Price
JD 8300 18x7 sdo gsa	#2799	$2495
JD 8200 21x7 ddo gsa	#3362	$3750
JD FB157B sdo gsa	#3787	$ 695
JD FB 13x7 sdo gsa	#2683	$ 695

MISCELLANEOUS

	Tag #	Sale Price
JD 300 30 Ft Elevator	#3888	$1195
JD 307 3 pt rotary cutter	#3531	$ 295
JD P107 3 pt rotary cutter	#2372	$ 250
Friend 3 pt Sprayer 18	#2813	$ 695
Walsh trailer sprayer	#3554	$ 495
JD 78 3 pt rear blade 7	#3811	$ 450
JD 27 Flail Shredder 4 whls	#2028	$2995
JD Hood for 125 chuck wagon	#3167	$ 85
Pr 18 4 34 8P GY tires		$ 175
Second R C valve for JD 3020 dash mtd		$ 390

COMPACT UTILITY TRACTORS & EQUIP.

	Tag #	Sale Price
JD 950 2WD w/423 fr blade 7'	#3871	$7500
JD 755 4WD turf tires	#3836	$8295
JD 365 front blade (fits 650)	#2187	$ 895
IHC Cub Low Boy 154 w/mid mower	#3204	$2500
York RS 5 rake w/casters	#3849	$ 595
IMCO 5 rotary cutter 3 pt	#3571	$ 425

CORN PLANTERS

	Tag #	Sale Price
JD 7000 6R Cons dry f insect mon	#3476	$8995
JD 7000 6R Cons liq f insect mon	#3386	$8995
JD 7000 6R Cons liq f insect mon	#3429	$7995
JD 7000 6R Reg dry f insect	#3199	$6595
JD 7000 6R Reg liq f insect mon	#3433	$5995
JD 7000 4R Cons dry f insect mon	#3400	$8500
JD 1240 4R dry f insect	#3251	$1895
JD 1240 4R dry f insect	#2355	$1595
JD 1240 4R dry f insect	#2849	$1195
JD 1240 4R dry f insect	#2543	$ 895
JD 494 4R dry f	#3619	$ 200
IHC 56 4R	#3570	$ 200

USED CORN PICKERS

	Tag #	Sale Price
NI 324 2RW 329 Sheller	#2430	$3,995
NI 324 2RW w 8 roll Husk	#3823	$3,450

USED HAY EQUIPMENT

	Tag #	Sale Price
JD 346 Baler 30 Ejector	#3100	$3,950
JD 346 Baler 30 Ejector	#3719	$5,295
JD 530 Round Baler	#3825	$8,150
JD 346 Baler 30 Ejector	#3677	$5,295
JD 336 Baler Wgn Hitch	#3684	$2,795
JD 336 Baler 30 Ejector	#3244	$4,995
NH 270 Cut/Ditioner	#2965	$1,595
JD 12 14 Mower Cond	#1507	$ 995

USED COMBINES

	Tag #	Sale Price
JD 6620 SH Cab A H Stw Spdr w/215 Flex Plat w/643 SH Corn Head	#3315 #3317 #3319	$59,000
JD 4420 Cab A/H Stw Spdr w/213 Flex Plat	#2304 #2310	$25,000
JD 7700 Cab A/H AHHC	#2721	$15,500
JD 6600 SH, Cab A/H 643 SH Corn Head	#3753 #3754	$23,000
JD 6600 SH Cab A/H w/215 Flex Plat w/643 SH Corn Head	#2918 #2923 #2925	$27,900
JD 6600 Cab A/H, AHHC w/213 Flex Plat	#3166 #3193	$21,900
JD 213 Flex Platform	#3828	$4,450
MF 300 Cab A w/13 ft Platform w/3R30 Corn Head	#2862 #2883 #3058	$6,500
NI 702D Uni Cab w/710 Combine 13 Plat	#1343	$4,500
AC Gleaner F w 13 Plat w/430 Corn Head	#3686	$13,950

USED FORAGE HARVESTERS & EQUIPMENT

	Tag #	Sale Price
JD 5200 SP Cab	#2855	
w 3R 30 RC	#2861	$14,500
JD 5440 SP Cab Power Whl Dr	#3771	
w 3R 30 RC	#3774	$39,950
JD 5400 SP Cab Power wh dr	#2840	$29,500
JD 38 PT w 5' Hay P Up	#3288	$1,995
JD 3R 30 Row Crop	#3147	$1,995
JD 3R 30 Row Crop	#2312	$1,795
JD 3R 38 Row Crop	#3108	$995
JD 3R 38 Row Crop (SP)	#1431	$1,095
NH 890 PT Harvester w 3RN RC & 6 Ft Hay PU	#3819	$4,295
JD 716 Hi Side 3B Roof Reconditioned	#3755	$5,995
JD 716 Hi Side 3B Roof Reconditioned	#3756	$5,995
JD 216 Wagon Hi Side 3rd B Roof 1065 Gear	#3769	$2,350
Grove Wagon 2 Btr	#3796	$1,495
Badger Forage Wagon w Roof Reconditioned	#3815	$5,500
Badger Forage Wagon w Roof Reconditioned	#3816	$5 500
Badger Forage Wagon w Roof Reconditioned	#3817	$5,500

USED MANURE HANDLING EQUIP.

	Tag #	Sale Price
NH 367 Tank Spreader	#2512	$1,495
IHC 575 w Hyd End Gate	#3830	$3,950

USED FARM TRACTORS

	Tag #	Sale Price
JD 4050 Q R SGB	#3622	$27,500
JD 3010 Dsl S/R ROM	#2997	$ 5,500
JD 2510 Gas S/R ROM	#2257	$ 4,350
JD 2030 HU Dsl	#3262	$ 9,550
JD 40T w/Cult	#3457	$ 1,595
IHC 706 Dsl	#3451	$ 6,500
ID 4240 Q/R SGB	#3705	$16,500
JD 4630 S/R	#3712	$9,950
JD 4430 QR SGB	#3759	$18,500
JD 4030 S/R Dual RC	#3748	$12,500
JD 3020 Gas S/R	#3267	$5,000
JD 3020 Gas, S/R WFE w/Allied Hyd Loader	#3654 #3655	$7,995
JD 3020 Dsl S/R WFE	#3765	$6,500
JD 3020 Gas S/R	#3709	$5,995
JD 2020 RU Gas w/47 Hyd Loader	#3695 #3696	$6,995
JDA w/2 Row Cult	#3752	$1,195
JD B w/2 Row Cult	#3716	$1,195
Oliver 1650 Gas	#2595	$ 4,500
Ford 600 w/3 pt	#2464	$2,500
Farmall Super A w/Cult	#3431	$2,450
AC 8050 MFWD Cab P/S	#3789	$27,500
IHC 706 Dsl	#3451	$6,500
Deutz 6006 Dsl	#3863	$ 3,750

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TRACTORS
White 2-180
AC D 14 w/Loader
AC 190XT
AC 7000, PS, ROPS
(2) AC 7020
AC 7040
AC 7060
AC 7080
(2) AC 5040
(2) AC 5050
AC 210
AC 5020
JD 2840
JD 2240
Kubota 355 w/Loader
Kubota B7100 HSE w/RC6000 Mower
IH 986
AC 6140

MOWER CONDITIONERS
NH 1 SOLD w/12' Head
NH 4 SOLD
NH 477
NH 1495 SP, 12' Hyd. Gas
NH 469
NI 279 Cutditioner

BALERS
(2) NH 273 w/54A Thrower
NH 271 w/Motor
NH 320 w/58 Thrower
NH 846
NH 316 w/70 Thrower

FORAGE EQUIPMENT
NH 1895 w/4RN & WPU
NH 890 W
NH 1890 Hydro C/A w/3RN & PU Head, 550 hrs.
(4) NH 822 Corn Head
NH 770 w/WPU
NH 28 Blower
NH 30 Blower
JD 5400, 3RN & WPU
Field Queen w/3RN, 2RW & WPU
Field Queen Standard w/3R Head
NH 900, 2R 30" Snapper Head

MISCELLANEOUS
NH 307 Spreader
Hub 48' Elevator
Gilson Snow Blower
(2) NH 358 Grinder Mixer
NI 325 Corn Picker
AC 2500 Disk
IH Spreader
JD 220 Elevator
Crust Buster 13' Posi-Depth Soybean Drill

LOADERS & FORKLIFTS
(2) L35 Skid

PLANTERS
AC 600, 4R, Air
(2) AC 600 4R no-till
AC 600 6R no-till
AC 333, 6RN

MOWERS
NH 451
NH 462 Disc
NH 463 Disc
Triumph Sickle Bar

WAGONS
Richardson Side Dump

COMBINES
AC C II w/2 Heads
AC FKS2 w/430 Corn Head and 313 Flex Head
AC G440 Corn Head
AC 430 Head
AC 6RN Head for M2 Combine

LAWN & GARDEN
AC 5020
AC 716 w/Mower
(2) AC 712H w/42" Mower
AC 616 w/5' Mower & Dozer Blade
AC 811 w/Mower
AC 608
AC 312 w/Cultivator, Plow, Blade & Mower
Woods 1250 Front Runner
Cub Cadet 782
(2) Gravely w/Mower
JD 112
Kubota B5100E
MF 14HP w/Mower

RAKES
NH 256 (2) NH 260
NH 258 V-Tandem Hitch

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NI 900 6RN single frame
NI 900, 6RN double frame

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JD 7000 Cons 6RN Corn Planter w/Monitor-real sharp
JD 1460 6RN Corn Planter w/Liq Fert
JD 1240 4RN Corn Planter

MANURE SPREADERS
NI 361 362, 363 and 364
NI 382 Martin Type Rebate $1,700
Gehl MS312 Scavenger
Gehl MS315 Scavenger

TILLAGE EQUIPMENT
Brillion 3 pt 7' Chisel Plow
Glencoe P320, 12'6" Field Cultivator
Hesston 18' Field Cultivator

MISCELLANEOUS
Tye 10' No till Drill -- Rental Machine
Brillion 10' Double Roll Alfalfa Seeder
Brillion 13'4" Packer

JUST TRADED - COMING IN
Uebler 790 Silage Cart new batteries
Gehl 910 Forage Wagon w/Roof
Gehl 920 Forage Wagon w/Roof
Gehl CB1000 Forage Harvester w/Tandem Wheels less than 2 yrs old

Snow Flake Special
Bervac 8' 3 pt. Snow Blower, 100HP plus Gear Box (Demo)
Call for Snow Flake Discount
Myers Snow Blade w/Mount Kit, as is, $250
Myers Snow Blade, $195

DUTCH AUCTION

New Equipment	List	Starting Price 3/10	Daily Reduction	Price Today 1/3
Soil Finisher Glencoe 12 9	8 379 00	7 482 00	8 00	$5 474 00

Tag#	Used Equipment	Starting Price 3/10	Daily Reduction	Price Today 1/3
1881	Corn Planter White 5400 4RN w/liquid	$1 948 00	$ 2 00	$1 446 00
1602	Combine IH 403 w 3RN head & cab	7 890 00	10 00	5,380 00

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- Utility 1978 Refer Trailer for Storage Only
- Vertical Blender For Feed Mill System, 1 Ton
- 18 Ft. Morgan Van Box
- Air Compressor, 3 Phase, 3 HP, 80 Gal. Tank
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USED TRACTORS

AC 7040, cab & air, power shift; 7030, cab & air; 6140 4WD w/loader; 6080; 6060 4WD; 5050 4WD w/loader; 5040 w/full. hyd. front end loader; 190XT; 190XT w/cab; 175 diesel; 170 Gas; 160; D17; D15; G w/hydr. & cultivator; B; WD 45; 200 D w/Cab; AC 6070 4WD.

JD 3010 diesel; 2240; Used cab for JD 30 & 40 series tractors, also 5010; JD 730D, NF.

IHC 856D w/Cab; 544; 424 w/hydr. dump loader; 230; 140; 100; Super A, with equipment; Super H, NF; Cub; Cub low boy w/5' Woods rotary mower; Cub low boy w/Mott Hammer knive mower; Cub w/cultivator; Farmall 460 Gas, Farmall M; Farmall H w/mower & snow plow; 674 gas, low hrs.

FORD: 7600 diesel, high clearance; 6600; 4100 Diesel w/loader; 4000; 3550 w/loader; 600; and 8 N's one w/bucket loader; 2000 w/Belly lawn mower; 4000 w/front end loader.

KUBOTA: 7500 4WD demonstrator; 6000 4WD w/sickle bar mower; L 225 w/cab.

MF: 285; 265 diesel; 180; 175 diesel; 165; 65; 40; Ferguson 30 w/loader; 40; Ferguson TO35 w/loader.

SNOW EQUIPMENT

75 Assorted snow plows; Valk 11' Snow Plow; Gledhill 10' Snow Plow; 3 pt., fast hitch, & snap coupler rear scraper blades; new tire chains - car, truck & trailer; some used tractor tire chain; new & used 3 pt. snow blowers & walk behind snow blowers; Vanmar 3 pt. snow blower.

INDUSTRIAL

TRACTOR LOADER BACKHOES - IHC 3414; Case 580 C; Ford 4000; AC 715-B; JD 310-A; AC 715D; AC 655; **CRAWLER LOADER** - AC 655; AC H3 Crawler w/angle blade. **TRACTORS WITH LOADER, 3 PT. HITCH & PTO** - IHC 2444, MF 40, MF 2200. **SKID STEER LOADER** - NH 455, Kubota Dsl., low hours; Gehl 4500, like new, 300 hrs.; Bobcat 610 gas, Bobcat 611 Deutz diesel. **LOG SKIDDER** - (2) JD 440 series A; **FORKLIFTS** - JD 9300 backhoe. 1 ton paving roller. 1977 Ford F700 truck with dump body, very good. 1969 Chevy Dump Truck. ARPS 3 pt. backhoe for small tractor. IHC 560 Forklift; Case 350-B Dozer; Case 350-D Dozer & Case 350-D Dozer w/forklift; JD 350C dozer 6 way blade & winch; 1979 Louisville Ford low wheel base tandem & Cummins diesel; IHC F2010-A tandem long wheel base, needs engine work; 8' snow blower w/self contained engine; IH T6 Crawler, very good under carriage; AC 640 ¾ yard articulated payloader; Farmi 3 pt. skidding winch.

MANURE EQUIPMENT

Hedlund Martin 1254 Spreader; NI Tandem Spreader; Hedlund Martin 1257 Scavenger Spreader; IHC 550 Spreader.

Spreaders: NH 516T Spreader; NH 329, 512, NI 12, 3 beater, NI 245, 375 bu. mtd. on Ford truck; NI 244 & 245 tandem manure spreaders w/hyd. tailgates.

Clay vacuum honey wagon; injectors available, like new.

Hedlund Martin Vanguard 2400 gal. tandem spreader

2100 gal. liquid spreader w/knife injector.

NI Basin Pump.

New Hedlund Martin liquid manure pumps & tanks in stock for immediate delivery.

Patz 3000 gallon liquid tanker

Better Bilt 1500 gallon liquid tanker

Better Bilt PTO liquid manure pump

Used tank type spreaders, 4 used PTO and ground drive conventional spreaders

Better Built 8' Manure Pit Pump, very good cond.

New Hawk 170 tank spreader at dealer cost, only 1 available.

Badger 3000 gal. tandem spreader w/injectors.

MISCELLANEOUS

AC 611 LTD w/Mower; Taylor 16 tooth trailer chisel plow; 4 NI 323 1R corn pickers, priced from $1995; 5 NI 324 & 325 2R wide or narrow row machine, with 12 row husking beds or sheller units. JD 2600 4-btm. spring reset plow, variable width; JD 8350 21 dbl. disc grain drill, like new, has small grain, fertilizer & grass seed compartment; Vicon 3 pt. hitch, power harrow, like new; NH 48' hay & grain elevator; New & used 3 pt. hitch snow blowers; Vermeer 30" tree spade, like new; Shaver 3 pt. post pounder; IHC 510 Grain Drill 13 double disc has grass seed & fertilizer like new, Shaver post pounder, 3 pt. hitch York rakes Servis 10 ft. 2 spindle trailer rotary mower, Bush Hog 5 & 6 ft. 3 pt. rotary mowers, Howard heavy duty 5 & 6 ft. 3 pt. roto-tillers, Small Davis backhoe for skid steer or 3 pt. mounting, IHC fast hitch carry all platform, Mott Hammer knife mower for Farmall Cub, 3 pt. hitch Mott Hammer knife mower, (3) Farmhand Corn Blurrs for high moisture corn, 20 misc. hydr. front end loaders for various models and make tractors - call for your needs, AC 100 HP D power unit with P.T.O. and clutch - choice of three. 12' Dump truck body; VanDale 14' silo unloader very good cond.; Steinhorst 400 gal. bulk milk tank; United Farm Tools- 1R corn picker, low acreage; Brillion 7 shank & Glencoe 5 shank soil savers, both like new.

NEW EQUIPMENT

Full line of Kubota tractors, loaders, mowers and tillers, low interest on all models. Deutz-Allis lawn and garden tractors. Deutz-Allis farm tractors from 40 to 110 horse power in stock. Blades, loaders, backhoes, trailers and carts; NI 360, 362, & 364 spreaders. One NI cornpicker, 2 row narrow head w/12 roll husking bed or sheller; Uebler 810-E, 808-E, 790 Feed Carts.

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New Idea, CDS Industrial formerly AC light industrial

USED EQUIPMENT

TRACTORS:
IH Farmall "C"
Farmall 200 w/Green Bean Mtd. Picker
Farmall 450 Diesel
Farmall Super C w/Fast Hitch & Cult.
Farmall 400 Gas, Tricycle
Farmall 806D, WF
Int. F12 w/cult., $650 - Runs
IH 240 w/Fast Hitch
Cub Lo Boy w/60" Mower
IH 185 Cub Lo Boy w/Mower - Mechanic's Special, $1,500
IH 340, Utility, WF, FH
IH 460 Utility Gas - Real Nice Cond!
IH 584 Row Crop - Real Nice!
IH 1566 w/Year-Round Cab, 30.5x32 Tires - $11,500
IH 656 Diesel - $4,850
Oliver 1800 Gas - Coming In
MF 135 gas, low-profile orchard tractor
Coming In - Case 990, Ex Cond.
Coming In - Case 885 Narrow, Special Tractor, Ex Cond

TILLAGE:
Brillion Vibra Tine Trailing Field Cult, 16 Ft, Like New
Pittsburg 11'6" Disk
JD KBA Disk, 9' – $750
JD BWA 12' Disk
JD 1710A 12' Trailing Mulch-Tiller, Like New – ~~$3,950~~ – Now $3,550!
IH 37, 35 In Various Sizes
Ford 3 pt Hitch 3-Bot Plow, 14", Category 2
IH 420 2 Bot 14" 3 pt Hitch Plow
IH 550 5-Bottom Semi Mtd Plow
Int 360 20 ft Trailing Field Harrow
1-Bot Trailing Plow
Vicon 10' Power Harrow – Was ~~$2,500~~ – Now $950

OUTDOOR POWER EQUIP.- OVER 20 USED L&G TRACTORS IN STOCK AT ALL TIMES
Cub Cadet 149 w/42" Mower
Cub Cadet 108 w/Mower
Cub Cadet 106
Cub Cadet 105 w/mower
Cub Cadet 682 w/50" Mower
Cub Cadet 982 w/50" Mower-Rental Unit
JD 210 w/Mower, Nice Shape
AC Big 10 w/Mower
Gravely Model 424, 10 Hp, w/Mower
Yazoo 16 Hp w/48" Deck, Nice Shape
Yazoo For Parts

MATERIALS HANDLING:
Farmhand Loader for IH 74 or 84 Series Tractor
357 Hawk Bilt Tank Spreader, Tandem Axle- Coming In

IH PARTS COMBINES:
IH 315 Hydro & Plat
IH 315 Gear & Plat
IH 403 Gear, 4R Wide Hd & 12 Ft Plat
IH 227 Cornhead
IH 700 13' Platform

COMBINES: 8.8% Int. or Waiver Til 11/1/87
AC FKS Diesel 4-Row Narrow Cornhead, 13' Platform, Nice Shape! – No Reasonable Offer Refused
AC FKS Diesel w/4-Row Wide Cornhead & 13' Platform
IH 205, Cab, 10 Ft. Platform, Real Nice - $4,800
IH 227 Cornhead, fits 315, 205 or 203
IH 843 4-Row-Narrow Cornhead – $3,250
IH 863 6-row Cornhead Real Nice!
MF 550 Hydro, Late Model, Grey Cab, 900 Hours, 1144 Hd And 13 Ft Soybean Platform w/23" Tires
JD 45 w/Hume Reel, Good Shape
744 Wide Cornhead for 715
743 Narrow Cornhead for 815

MISCELLANEOUS:
SIMMS Cab & Roll Bar Enclosure for 574 Series Tractor – $650
ARPS 3 pt 78" Snowblower
Vicon 281 Mower Cond - Extra Special Price! (New, Demo)
Walsh 300 Gal Trailing Sprayer
Howard Rotovator, 54", 3 pt Hitch, Hvy. Duty - $1,050
Tricycle High Boy Sprayer, Set Up For Sweet Corn, with FMC High Pressure Pump - Needs Work, Make Offer

HAY & FORAGE:
Int 56 Blower, Rebuilt
IH 61 Forage Wagon w/140 Gear - $750
NH 33 Flail Chopper
NH No 26 Blower
(2) NH No. 27 Blowers (Whirl-a-Feed)
Gehl FBB 88 Blower
Gehl 99 Hi-Throw Blower, nice!
550 IH Chopper (Parts)
1014 Hesston Mower Cond – Make offer!
NH 69 Baler w/o Thrower
NH 268 Rake w/Jack
IH 27 Baler - Real Nice
IH 420 Baler w/o Thrower
IH 430 Baler w/Thrower- $1,500!
IH 440 Baler - Real Nice!
(2) IH No Bale Throwers
IH Direct Cut Head For 15 or 16 Chopper
IH 781 Chopper w/2 Row Head - Like New
NI Stalk Shredder, 12'

PLANTERS:
IH Model 510 16x7 CO SD grain drill like new
(2) IH 56 4-Row Planters - Real Nice Cond
IH 400 4-Row Cyclo Planter
IH 2-Row Fast Hitch
IH 455 4-Row
IH 658 6-Row Narrow Dry Fert
4 & 6 Row Cyclos, Field Ready!
JD 1240 Plateless, Liq. Fert., 30" Rows w/DEMCO Squeeze Pump – Nice!
JD Van Brunt 13x7
JD FBB 17x7 DD

Winter Specials!

JAMESWAY VENTILATION EQUIPMENT IN STOCK
Limited Availability **50% OFF**

Butler 115 Mix Box (Make Offer)	$6,450
Vicon 281 Mower Cond (Demo Make Offer)	$9,500
Trailblazer Foam Marker Kit (List $950)	$ 785
Century Dye Marker Kits 2 Available At 10% Below Dealer Cost	$350 ea.

John Blue Saddle Tanks - 200 & 260 Gal Available In Stock
John Blue 300 Gallon Trailer Sprayer
John Blue 500 Gallon Trailer Sprayer

1-ONLY SPECIALS...
8.8% INT. or WAIVER TIL 11/1/87

IH 4623 Vibra Shank 23 Trailing Field Cult Demo Setup Weathered	$4,895
IH 4630 Vibra Shank 30 Trailing Field Cult Not Set Up	$5,895
IH 540 Spread SOLD Tires Weathered	$2,645
IH 144 Cultivator For IH 274 with Rear Section Not Set Up	$1,195
Case IH 1190 M SOLD nditioner 9 Ft Demo	$4,988

8.8% INTEREST or WAIVER TIL 11/1/87 Plus... $2,000 TO $10,000 CASH BACK ON NEW TRACTORS & COMBINES!

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NEW EQUIPMENT

Int 200 Series Tractors In Stock – All Models Available!
Case 2294 4WD – Extra Extra Special Price Rental Unit
Case IH 1896 2WD – 2 In Stock 1 w Cab & Air 1 w/4 Post Roll Bar
Case IH 2096 2WD & 4WD Cab
Case IH 2294 – 2WD – Cab
Case IH 585 w Shuttle Shift
IH 585 SOLD – Demo
Case IH 685 SOLD op – ROPS
(2) Case IH 685 SOLD rd Special – Demos
Case IH 385 Low Profile w/Turf Tires – ROPS
Case IH 1594 4 Wheel Drive 2 Post ROPS w/Power Shift
Case IH 1394 2 Wh SOLD 2 Post ROPS Power Shift Turf Tires
Case IH 1394 4 Wheel Drive Cab Power Shift
Case 183 SOLD Loader - Gas
(2) Case 1845 C Skid Loaders
IH 183 Vibra Shank 4 Row Cult - Set Up Extra Special Price
Straw Chopper For 1420 Combine – Make Offer!
Case IH 1660 Combine
1063 6 Row Cornhead 1043 Cornhead & 1020 15 ft Grain Platform
IH 560 Spreader
Case IH 415 13 2 Packer Mulcher
Case IH 415 10 1 Packer Mulcher
Case IH 145 4 Bot SOLD Plow
Case IH 145 3 Bot Rollover Plow
Case IH No 720 6 Bottom 18 On Land Plow
IH 181 Rotary Hoe
800 6 Row Air Planter Demo
Case IH 20x6 Plain And Combination Drills
Case IH 18x7 Plain Drill
Case IH No 14 Sub Soiler Auto Reset

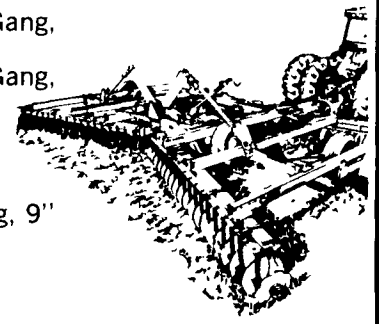
CASH BACK! $2,000 to $10,000 Cash Back On New Tractors & Combines

DISKS

Case IH 496 18x7 Cushion Gang, 7½" Spacing
Case IH 496 18x7 Regular Gang, 7½" Spacing

New Model – JUST IN...

Case IH 475 12', Cushion Gang, 9" Spacing



HAY EQUIPMENT SPECIALS

Will Sell Below Invoice Price!

Case IH 96 Hydraulic Rake
Case IH 1490 12 ft Hydroswing
Case IH 445 Baler with Thrower - Demo
Case IH 3450 Big Round Baler

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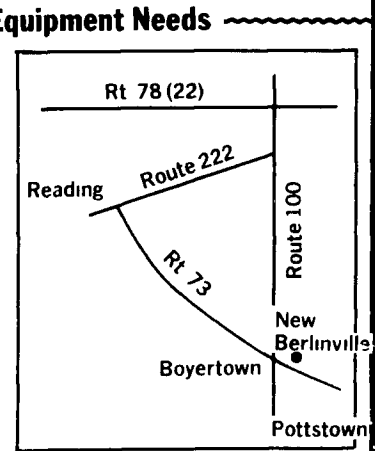
- ★ John Blue Sprayers
- ★ FMC Bean
- ★ Brouwer Turf Equip
- ★ Grasshopper Mowers
- ★ Myers Forage Wagons
- ★ Hedlund Martin
- ★ Madison Silos
- ★ Ag Chem Sprayers & Parts
- ★ Northwestern Skid Loaders
- ★ Woods Mowers, Blades & Backhoes
- ★ Trailblazer Foam Markers
- ★ Cub Cadet Lawn Equip



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SPECIAL
JD 7000 6 row conservation planter, dry fertilizer, monitor, frame mounted coulters, insecticide.
Sale Price $11,750
DEMO

USED COMBINES
JD 6600 LL, rotary screen, 1,400 hrs., dsl., cab, AC, very good, $19,000
JD 6600 Side Hill, dsl, hydro, cab, AC, 2,000 hrs, excellent
NH TR85 rotary, 4WD, hydro, Cat dsl., 16' flex platform, Bish adaptor, very good, $29,000
MF 760 hydro, cab, AC, 24.5x32 tires, good, 1163 CH, 15' platform, $27,000
MF 750 hydro, cab, AC, nice, 1163 CH, 15' platform, $27,000
MF 510, cab, dsl., platform, $7,500
(2) JD 215 flex platforms, good $5,000-$6,000
JD 213 flex platform, good, $6,000
JD 444 corn head, good, $3,000
(2) MF 44 corn heads, good, $2,800 ea
NI 710 Uni combine w/10' platform, $2,500
NI 325 2RN sheller, good, $4,500
(New) JD 300 husker, In Stock

Interest Free Financing Till Sept. 1, 1987

USED TRACTORS
JD MT w/cult, sickle mower & 2 btm. plow
JD 50, 3 pt., live power, good, $1,800
JD A Tractor w/picker
MF 85 Tractor, gas, WF, $2,800
MF 65 gas, good, $2,500
Farmall Super H, good, $1,200
Farmall H $900
Farmall 544, tricycle, 3 pt., good, $4,500
Farmall 350, $1,200
Farmall 706 Gas, WF, excellent, $5,000
AC WD w/2 btm plow, good, $1,300
1850 Oliver, cab, 92 h p, good condition
1952 8N Ford, overhauled, excellent

TILLAGE
9' Case transport disk
JD RWA 13' Disc
IH 450 auto. 3 btm, 16" reset plow, excellent
(6) 2, 3, 4, 5 bottom plows
18' transport harrow, Special $900

DRILLS & PLANTERS
JD FBB 16x8 Hoe Drill, grass seed, excellent
JD FBB 17x7 disc drill, single disc w/grass seed, good
(2) JD 1240 planters, good cond
IH 56 4 row DD, dry fert
IH 13x7 disc drill, good
JD 7000, 6R Cons, Dry Insect, Sharp, $8,500

HAY, FORAGE & MISC.
NH 69 Baler, good
NH 269 Baler w/thrower
NH 273 Baler, excellent
NH 68 baler w/thrower
IH 241 round baler, very good
IH 430 baler w/thrower, good
JD 14T baler, nice
JD 480 mower conditioner
IH 990 haybine, 9'
NH 460 haybine
NH 479 haybine, very good
NH 33 Flail Chopper, good
JD #15 Flail Chopper
JD 38 Harvester
Fox Harvester w/2 heads
Model 7600 Field Queen Harvester w/Grass Head, Diesel
NH 880 Forage Harvester w/2 heads
JD 115 Forage Box
JD 750 grinder mixer, very good
512 NH Spreader, $400
JD 40 Spreader, excellent
28' Zimmerman Elevator like new

1 FARM EQUIPMENT

AC 7000 Dsl. Tractor
AC 185 Tractor
AC CA Tractor w/ Cultivator
AC D17 Dsl. Tractor
AC D17 Gas Tractor
Farmall Cub w/1R Cultivator
JD 40 Manure Spreader w/Upper Beater
NI 218 Single Beater Spreader w/Hyd. Endgate
NI 382 Spreader, Solid Plus

ROY H. BUCH INC.
Ephrata
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USED TRACTORS
JD 3020 Side Console
JD 4020 w/Hiniker 1300 Cab
Case 1394 w/14 Hrs
Case 1210 Power Shift
Ford 5000, 1971 model
Ford 7700 w/cab & Air
Ford 3600 Dsl. w/P. Steering
Ford 4000 SU, Gas, Very Nice
Ford 601, 5 spd., power steering
Ford TW10, 4 WD w/cab & Air
Ford 7700 4WD w/Cab & Air
Ford 7700 4WD w/Cab & Air, w/Ford 777F Loader
AC WD45
Oliver 880, power steering
Oliver OC4 Crawler Loader

USED EQUIPMENT
Case Skid Steer Loader, Water Cooled Engine
NH 770 w/Both Heads
NH 707 3 pt. chopper
NH 890 w/2 row
NH 718 w/2 row
NH S717 w/1 row
Gehl CB600 w/2 row
NH 845 small round baler
Gehl 1400 Small Round Baler, Very Nice
NH 276 baler w/thrower
NI 325 Super Sheller
NI 325, 2 RN, 12 Roll Bed
NI 323 1 row picker
Oliver 4-16 ST plow
Oliver 4-16 AR plow
White 5x18 AR Plow
Gehl 710 forage box
NI 213 Manure Spreader w/Endgate
NI 214 Flail Manure Spreader w/Endgate
NH 474 Haybine
NH 477, 7' Haybine
NH 256 Rake w/Dolly Wheel
NH 258 Rake
Gehl 910 forage box
NH 354 Feed Grinder

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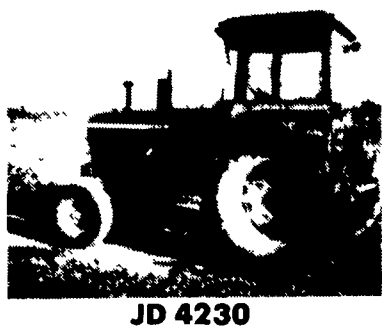
Six or eight HP electric start, slow speed Lister diesel. Please quote condition and price with answer. Lykens Valley Engine Repair, P O. Box 517, Gratz, PA 17030.

WANTED Good late model forage harvester & 3 wagons w/roofs Berks Co 215-944-0541

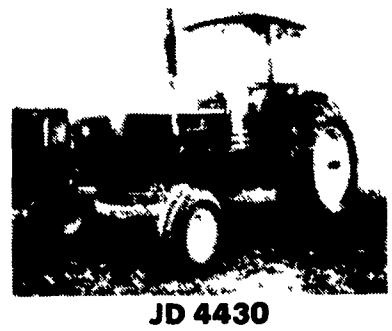
WANTED. Late model JD 4020 diesel w/bad trans or diff 315-673-2128

WANTED Used NH auger base, 3 row narrow low profile corn head 302-398-8754

NICE TRACTORS FOR SALE



JD 4230
$10,800.00



JD 4430
$10,800.00

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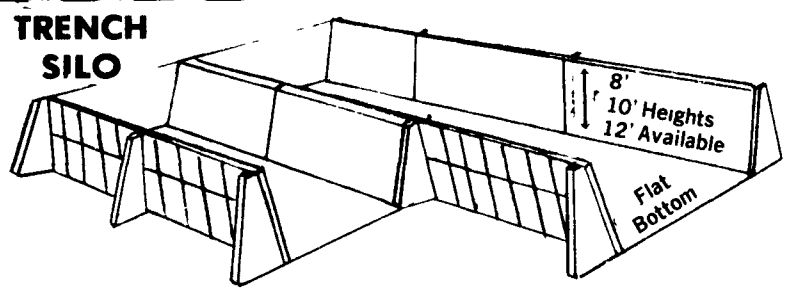
3 SILOS AND UNLOADERS

TRENCH SILO



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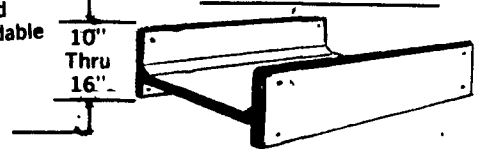

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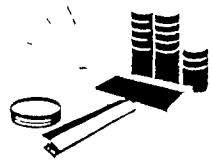

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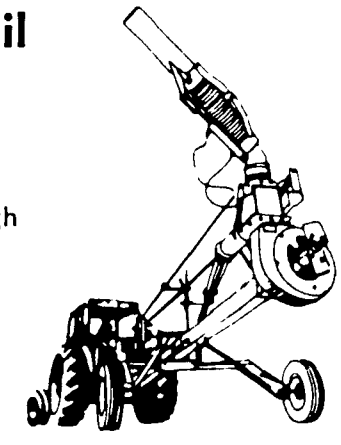

Badger

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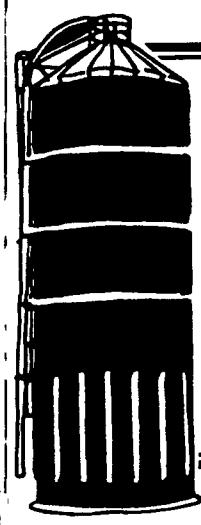

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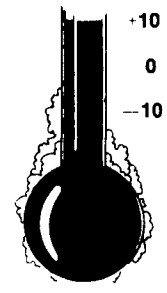
Farmers with the following types of Unloader Installations

Jamesway, Patz, Badger, Silo-Matic, P&D, Starline or Clay

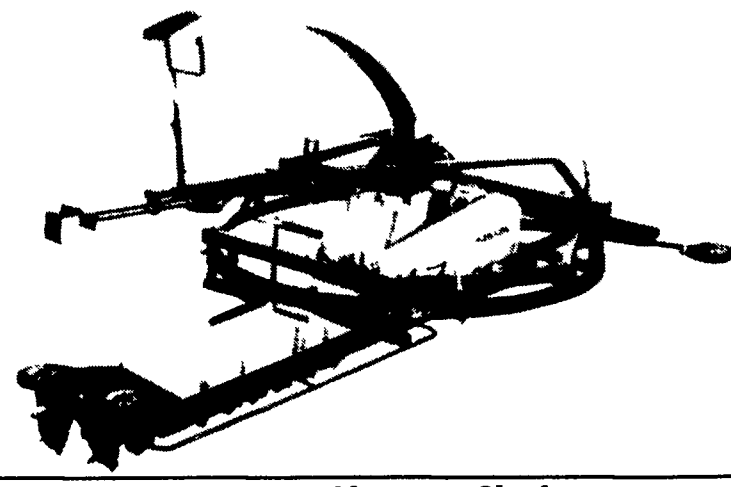
Is your Barn Cleaner or Silo Unloader Ready for Winter???

Remember how cold it can get in January?



Local winters are tough on everything including your silo unloader. Why not have the peace of mind that your unloader is ready for winter and save some money too!

BLOW THE COMPETITION RIGHT OUT OF THE SILO WITH A HANSON SUPREME UNLOADER



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STORAGE FOR ANY FORAGE
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The Sollenberger Pre-Cast Bunker Silo Panel Is Designed To Be Free-Standing. With The Tongue and Groove Edges, It Can Be Coated With Mastic & Bolted Together To Give An Air-Tight Smooth Wall That's Easy To Pack And "Keeps Feed Good." Delivered And Set On Your Prepared Gravel Base.

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- 8'6" high
- 5'2" Wide
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- Adaptable To Headgates Or Self-Feeders.
- Very Strong
- Can Be Used For Retaining Walls.

- Manure Storage Systems For The Small Herd - or The 400 Cow Herds And Larger.
- Systems Adaptable To Any Type Equipment
- SCS Approved

"MANURE STORAGE SYSTEMS"

- Do It With Concrete -

- Pre-Cast Concrete panels Delivered And Set On Your Prepared Site.
- Circular Tanks Poured-In-Place Above Ground - In Ground - Or Uneven Backfill.

CONVENTIONAL TOP-UNLOADING SILOS

"YOU'LL APPRECIATE THE QUALITY OF A SOLLENBERGER SILO FOR MANY YEARS TO COME."

- Solid 6" Poured Concrete Walls
- Horizontal and Vertical Reinforcing Steel (Exceeds ISA Standards)
- Concrete Chute
- Redwood Doors
- Fill Pipe
- Outside Galvanized Ladder With Safety Cage
- Many Extras To Reduce Maintenance Costs For Many Years.

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"WE HAVE SEVERAL SILOS SOLD FOR 1987 ALREADY"
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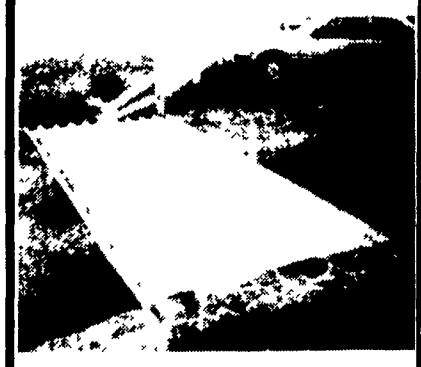
TWO SIZES TO MEET YOUR NEEDS: 12' & 16'

PUT AN END TO THAT PESKY CHORE OF OPENING & CLOSING GATES!

Delivered & Set In Your Roadway



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- Laidig 98 - For Grains And Forages
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- ✓ Enclosed Gooseneck
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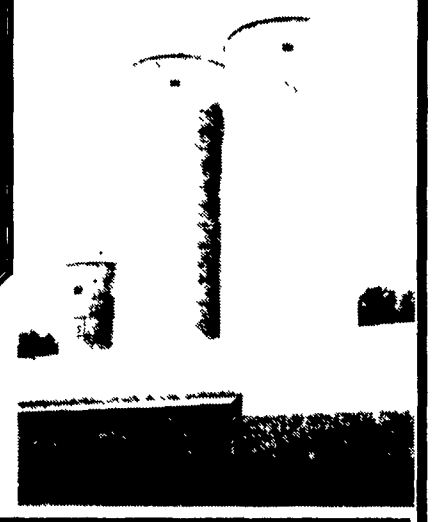

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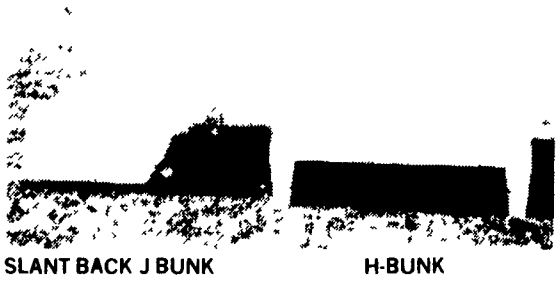

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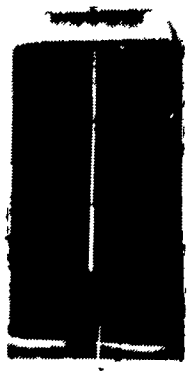

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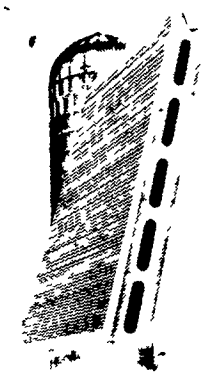

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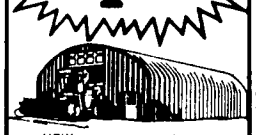

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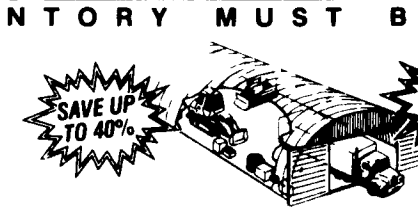

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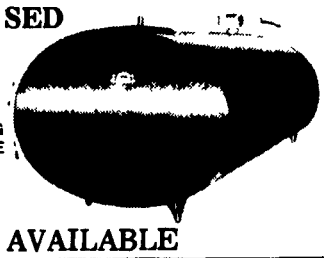

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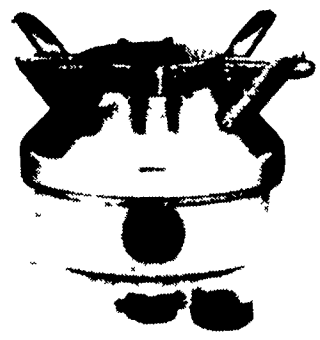

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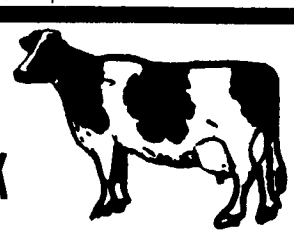

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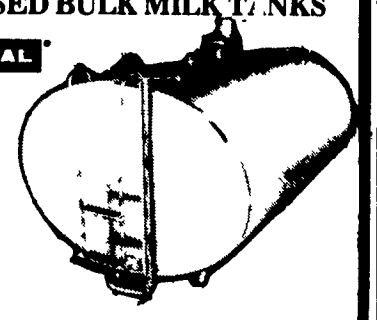

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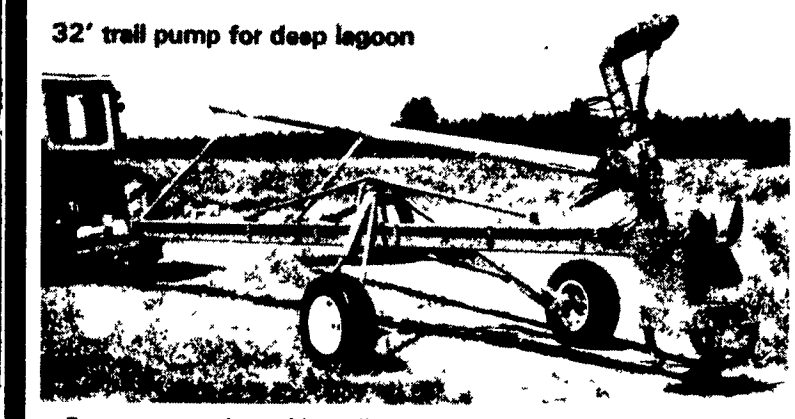

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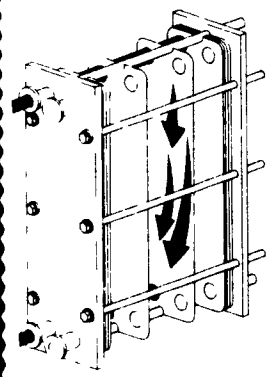

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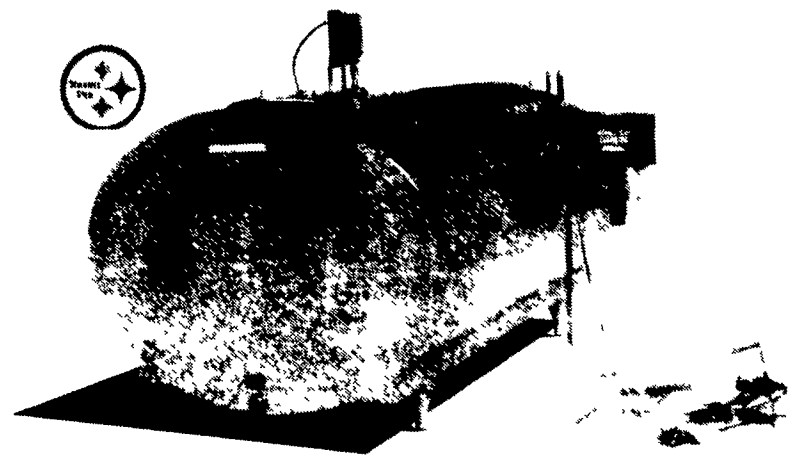

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The Basics Of Management

Six Steps To Establish Control Of Farm Business

By Roland P. Freund
Area Farm
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Step 3. Which plays can our team use? Examining Enterprise Alternatives.

When specific goals and objectives have been established (we did that in the last edition of this series), then we need to look at the options available to us in order to generate the production and income to achieve those objectives. A football team that sets out to have a winning season will prepare many different plays and strategies to equip itself to achieve that goal. There are some plays that may never be used, but the coach evaluates them and keeps them in mind - just in case.

In the farming game there is often need for several different "enterprise teams", and we have to be very careful to evaluate the role of each enterprise, as well as the performance of each player, in achieving the winning result. When on player consistently fumbles the ball, or runs in the wrong direction, we can't win if we keep giving him the ball. We have to prepare a game plan for each "enterprise team".

Our **livestock plan** might list as a specific objective maximum profit from farm-raised feed, and earn a good return to the farm family's labor. The players on this team are the enterprises - cows, heifers, steers, hogs. The performance of each can be measured with budgets, plugging in your own farm records. If your budgets show that steers regularly loose profit yardage that was gained by the cows, then you better plan to keep those steers "on the bench."

In this process, we are comparing enterprises - to see which of them best contributes to the needs and profits of the whole farm. It is not necessary to use complete budgets which attempt to allocate every last cent of "fixed cost". A simpler tool is to take income (or product value for commodities produced on the farm and fed to other enterprises) and deduct all variable costs to give the "enterprise gross profit margin." Select those enterprises which return the most gross margin, yet can be maintained with your resources and abilities. For more detail of such budgets, see **Financial Management for the family farm** Vol. 85, No. 10 - Cash Flow as a Tool of Financial Management, available at your county Penn State Extension Office.

To complete the livestock plan, we should have such helpful tools as a three-to-five-year production plan, breeding/stocking schedule, feeding program, and finally, a facilities/equipment plan. This is considered last because it is only when we have put together a profitable livestock scheme that we need to invest in buildings and equipment to maintain that profitable livestock program. We should not build facilities first, and then try to develop a business to pay for what thought we wanted.

We should play our **cropping plan** in much the same way. It's objective might be maximising profit from sales, or it might be producing low-cost, high-quality feed for the livestock enterprises. All possible crops and double-crop combinations should be budgeted, using current data. In all budgets it is very important that we be conservative in anticipation of yields and prices; all of us know of the risks and uncertainties of climatic and market conditions. After selecting those crops that appear most profitable, plug them into a plan which includes these features:

Fertility - efficient use of nutrients from manures and legumes

Weed control

Rotation plan, combining the above

Conservation - drainage, tillage, erosion control

Cropping plan by individual field

Storage alternatives

Equipment needs (not wants)

Without a **marketing plan**, a farm is like a football squad without a kicking team - it can't hope to maintain profit-winning scores. To train this hot-shot marketing kicker, the manager needs to:

Know local markets, prices, commissions, drying costs etc.

Understand government programs, their restrictions, signups etc.

Stay up-dated on national markets, USDA reports etc.

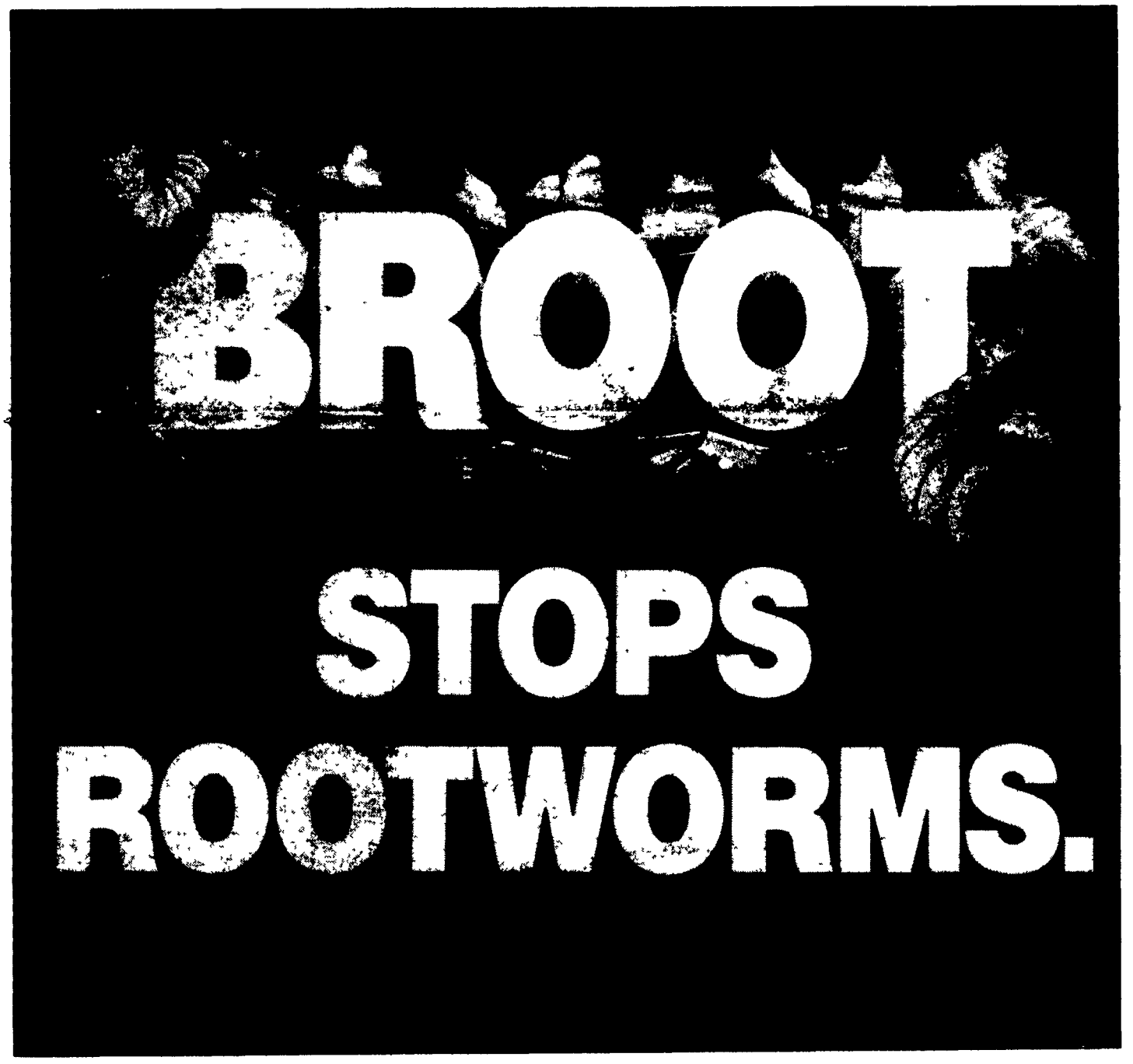
Consider contract marketing

Know hedging or futures options - opportunities for the prudent.

Just as with game plans, there is no one best marketing strategy. No marketing plan will always hit the tops of markets. The careful manager, who knows his costs and his desired profit margin, will keep himself informed. He'll take a profitable price for part of his production when it is guaranteed, but he had best not be too greedy — this can bring disaster.

The marketing plan is the continuous monitor which provides signals that indicate when some adjustment should be made in livestock or crop-production plans to take advantage of opportunities for profit. This monitor will help identify enterprises that cannot put points on the board, and send those players to the showers.

A football coach prepares his teams for every forseeable situation. The farm manager prepares his plays on paper, so that when conditions change he can re-evaluate the circumstances and develop new strategies. The next section of this series will discuss how the farm manager uses this information to put together a farm game plan. All this takes some management time, but it can be far less costly than experimenting with poured concrete, steel, equipment, and $100,000 investments.



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Wisconsin Scientists May Improve Domestic Potatoes With Wild Genes

MADISON, Wisc. – Domestic potatoes are good, but they could pick up a few positive qualities from their wild relatives, according University of Wisconsin experts.

Wild potatoes often have desirable traits such as resistance to frost, drought and disease, but they can't readily share these with their domestic cousins.

Plant scientists at the University of Wisconsin-Madison have found special pollen in wild potatoes that may help transfer their desirable traits to domestic potatoes. Georgia Yerk, a graduate student in plant breeding and genetics, and geneticist Stanley Peloquin are using intermediary potatoes to capture and preserve genetic traits found in wild potatoes.

"We are now in a position to tap the storehouse of genes present in wild species and to evaluate their contributions on a single plant level," Yerk says.

Yerk is experimenting with wild potatoes from Argentina, Bolivia, Chile and Peru. Her work faces two serious obstacles, though. Wild potatoes don't grow tubers in Wisconsin because of differences in day length. And traits can't be directly transferred from wild potatoes to domestic species because wild potatoes have two sets of chromosomes, a characteristic known as diploidy, and

(Turn to Page D2)

Farmers May Not Get Savings of No-Till

Farmers use no till and minimum tillage to save time, energy and soil. "However, many are not getting the soil savings due to cropping practices," says Robert Hotchkiss, Soil Conservationist with the USDA Soil Conservation Service in Chambersburg.

A Dauphin County study has shown that as high as 81 percent of disk and chisel tillage is ineffective due to a lack of ground cover. Some farmers bale cornstalks for bedding. This leaves the ground surface bare over winter and greatly increases erosion.

In other cases, farmers make too many trips over the field with chisel plows or disks. As a result, too little crop residue remains on the soil surface.

Using a no-till planter leaves 95 percent of the residue on the surface. Chisel plows leave 50 to 80 percent per trip depending on type of chisel. Disks leave 25 to 50 percent of cover per trip while conventional plowing leaves 0 to 10 percent.

A minimum of 2000 pounds of residue per acre on the surface is needed for effective erosion control. Fine textured residue left by crops such as soybeans and small grain is more effective pound-for-pound than coarse textured residues such as from corn and sorghum. "To be exact," says Hotchkiss, "a pound of small grain residue is twice as effective as one pound of cornstalks."

According to Hotchkiss, there is an easy way to estimate the amount of residue produced by a crop. Multiply your crop yield in bushels per acre times the residue yield of your crop. Residue yields for common crops are: winter small grain, 100; spring small grain 60-75; corn 56; and soybeans 40. A 30 percent loss of cover over the winter is also included in the computations. Thus, an 80 bushel per acre corn yield would produce 4480 pounds of residue less 30 percent winter loss equals a spring cover of 3136 pounds of residue.

At this production level, adequate erosion control would be obtained with the use of no-till planting and leaving all or most residue. However, two trips over the field with a tandem disk would incorporate 75 percent or more of the residue into the soil leaving less than 1000 pounds per acre on the surface. "The result would be an excellent opportunity for excessive soil loss due to water erosion,", added Hotchkiss.

Soil covered with plant residue is the secret to good erosion control. No-till farming leaves the greatest amount of cover and the best protection.

For more information about protecting your cropland soil, contact the Soil Conservation Service office at 550 Cleveland Avenue, Chambersburg, or phone 264-7013.

Cornell Lecture Series To Explore Biotechnology

ITHACA, N.Y. — The Boyce Thompson Institute for Plant Research at Cornell University is establishing a distinguished lecture series to examine a wide range of research advances in biotechnology and other areas in the life sciences.

The annual series will feature 20 American and foreign scientists as speakers; the inaugural lecture is set for mid-January, BTI President Ralph W. F. Hardy announced.

"The purpose is to bring to our Institute a breadth of distinguished scientists at the rapidly expanding frontiers of life sciences to discuss the latest research advances and share the opportunity with members of the broader Cornell community as well as the general public," Hardy explained.

Hardy, whose field is life sciences and who is an authority on biotechnology, said that the lectures by scientists here and abroad will have an impact on the Institute's future research directions, with particular emphasis on modern genetic techniques and related areas of biotechnology.

"From these new thrusts in life sciences will come the technology not only to revitalize agriculture in the United States but to help developing countries become self-sufficient in food production," he said, adding that the Boyce Thompson Institute is "positioning itself to be at the frontier in facilitating this change among the developed as well as the needy nations of the world."

Established in 1924 in Yonkers, N.Y., BTI moved to the Cornell campus in 1978. The Institute is dedicated to improving food and fiber production and maintaining environmental quality through research focusing on biological control, environmental biology, plant stress, and nitrogen and crops yields. Hardy became BTI's president and chief executive officer on Sept. 1.

He said that two lectures will be presented each month throughout the year, except July and August.

In addition to lectures, the speakers will have the opportunity to hold an informal meeting, during lunch hours, with Cornell students, including those assigned to BTI scientists for research work. All lectures will take place in the Institute's auditorium at 3 p.m. on Wednesdays. Specific dates will be announced later.

The first lecture in the Boyce Thompson Institute Distinguished Lecture Series will be given by Robert B. Goldberg, professor of biology at the University of California at Los Angeles. He will discuss his efforts to improve the quality and quantity of seed proteins in food plants through genetic engineering techniques.

Other scientists on the speaker list thus far are Roger N. Beachy of Washington University in St. Louis; Leroy E. Hood of the California Institute of Technology; Peter H. Quail, University of Wisconsin at Madison; George H. Lorimer, E. I. du Pont de Nemours & Co.; Thomas Kaiser, Rockefeller University; Thomas E. Wagner, Ohio University at Athens; Wendell L. Roelofs, New York State Agricultural Experiment Station at Geneva; George P. Georghiou, University of California at Riverside; and David Botstein, Massachusetts Institute of Technology.

Tentative topics include developing disease-resistant plants through genetic engineering; gene sequencing in plants, animals and humans; light regulation in plants; plant enzymes known to play key roles in photosynthesis; engineering crops with adequate resistance to herbicides; making farm animals more efficient through genetic engineering techniques; analysis of insect sex attractants at the molecular level; pesticide resistance; and fungal genetics.

For more information about the lecture program, telephone Hardy's office at (607) 257-2030.

Wisconsin Scientists

(Continued from Page D1)

domestic potatoes have four sets of chromosomes, a characteristic known as tetraploidy.

Yerk and Peloquin want to use the wild pollen to transfer characteristics to domestic species, but they also want to keep the wild potato traits more apparent in hybrid progeny. To accomplish this, they use a derivative of domestic potatoes to capture and preserve desirable traits from individual wild potatoes.

"We're not trying to introduce any specific characteristics into domestic potatoes," Yerk says. "We're trying to get a feel for ways to use the wild species and the differences that exist among and within them."

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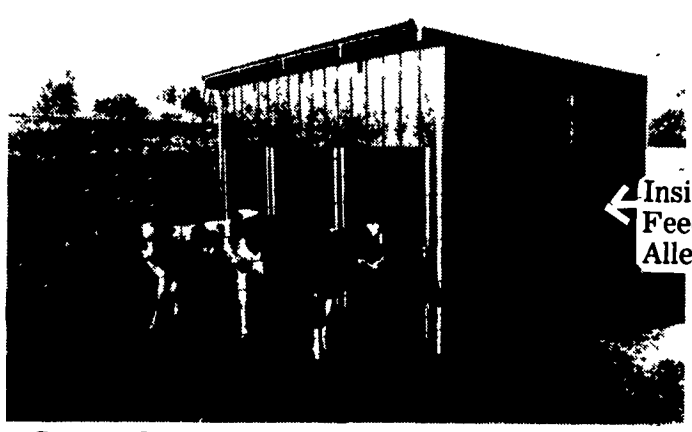

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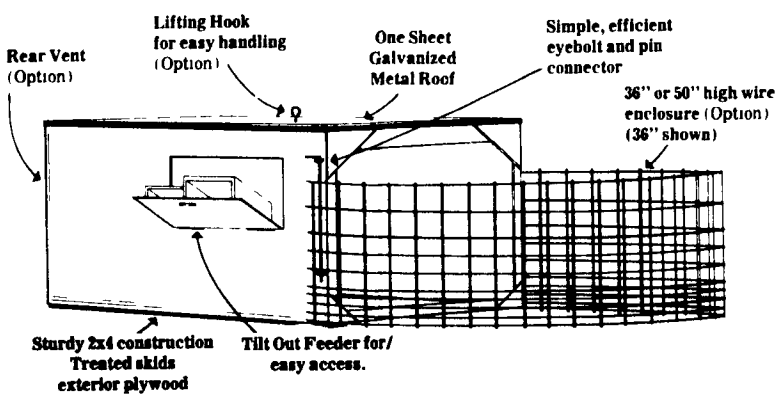

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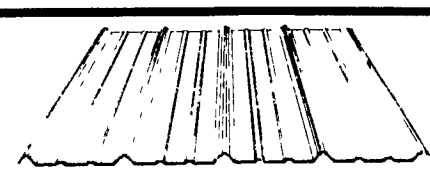

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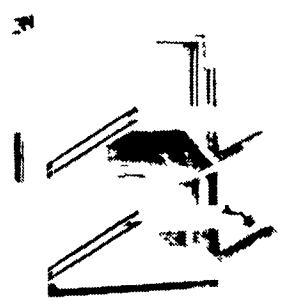

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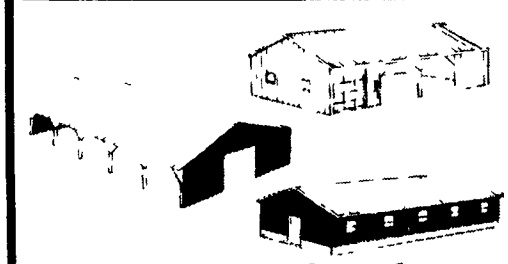

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Maryland Specialist Addresses No-Till Weed Problems

BY JACK HUBLEY

YORK — Farmers who suffer from weed problems in their no-till fields need to realize that there's more than one way to skin a cat...or a pigweed, as the case may be.

At last week's Mid-Atlantic No-Till Conference held in York, Maryland Extension weed control specialist Ronald Ritter told farmers that options such as crop rotation and varying amounts of tillage are sometimes preferable to herbicides in no-till situations.

Some of the most common bugaboos, he said, are the triazine-resistant weeds, deep-rooted perennial weeds and perennial grasses. Two of the most common triazine-resistant weeds are pigweed and lambsquarters. Rotating from no-till corn to different crops such as soybeans is a good way of dealing with resistant pigweed, he said, since more herbicides are labeled for weed control in soybeans. Consider some form of minimum tillage if lambsquarters are a problem, said the specialist.

Dual or Lasso should be considered for preemergent pigweed control. Since postemergent herbicides may be necessary,

Ronald Ritter

Ritter recommended hitting the weeds early at a height of two to four inches. Banvel can be used on pigweed and 2,4-D works well on lambsquarters.

Corn is the best crop for dealing with perennial weeds, Ritter said. One of the best methods of dealing with the perennial broadleaf weeds is to apply Banvel or Roundup following corn harvest but before frost. Banvel or 2,4-D provide effective postemergent protection during the growing season. Split applications of triazine herbicide are a cost-effective way of dealing with Canada thistle, according to Ritter.

Controlling perennial grasses, such as Johnsongrass, in no-till corn poses problems, since no herbicides are approved for this application. Again, an effective strategy is to rotate to soybeans for better control options, said Ritter. Where corn must be planted, the specialist recommended incorporating Sutan or Eradicane.

Ritter also pointed out that the annual grasses posed a problem this year largely due to the dry conditions. "One of the major problems was that the weeds were out there early pulling the soil moisture out," he said. To keep the early weeds from robbing soil moisture, Ritter recommended early preplant herbicide applications to get the jump on weeds.

Farmers To Receive Crop Insurance Payments

WASHINGTON, D.C. — Farmers throughout the country will receive more than a half billion dollars this year from the multiple crop insurance loss payments from yield and crop quality losses caused mostly by drought and excessive moisture.

E. Eugene Gantz, executive vice president, American Association of Crop Insurers in Washington, says almost 60.1 million acres of cropland were insured in 1986 with a total liability of over $6.2 billion. Total premiums are estimated at $381.6 million compared with about $559 million in expected loss payments, he adds.

This results in a national ratio of 1.47 of loss payments to total premium. Furthermore, since the federal government will pay an estimated 25 percent of the farmers premiums, the farmers cost will be only about $285 million, therefore, farmers will receive about $1.96 in loss payments for each dollar of premium paid.

Much of this year's losses occurred in the Southeast, according to Gantz, where farmers went most of the growing season without rain. Other areas with heavy losses included the Midwest and Upper Great Plains. Heavy winterkill damage on winter wheat occurred in the Midwest while Montana growers again experienced drought, for the third consecutive year.

Gantz says an undetermined number of acres were harvested late in parts of the Upper Midwest, which may also result in additional yield losses.

Leading the states in total estimated crop losses payments are: Montana and Texas with $64 million each, California with $40 million, and North Carolina totaled $38 million. States in the $20-$25 million range include Alabama, Georgia, Iowa, Kansas, Minnesota, Missouri, and North Dakota.

The Multiple Peril Crop Insurance Program is a joint effort by private insurance companies and the federal government, protecting farmers and their families from crop losses beyond their control, Gantz explains.

Farmers' costs for crop insurance protection are reduced by about 25 percent in direct premium subsidy from the federal government and another approximately 25 percent for administrative costs that are borne by the government.

In the five previous years that the Multiple Peril Crop Insurance Program has been operating, (1981-85) total protection in force reached $30.4 billion; loss payments made to farmers total $1.5 billion for the period.

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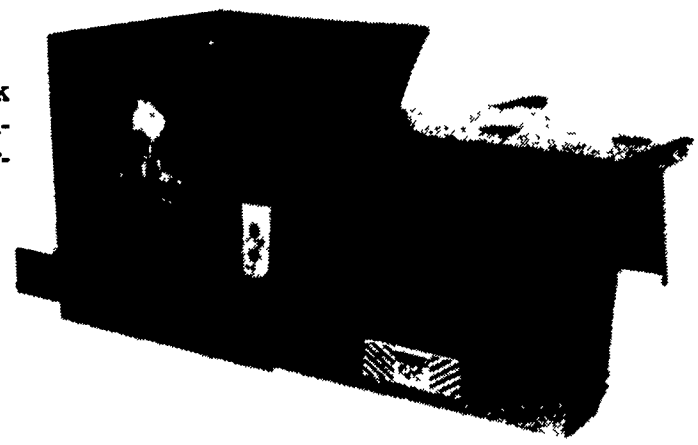

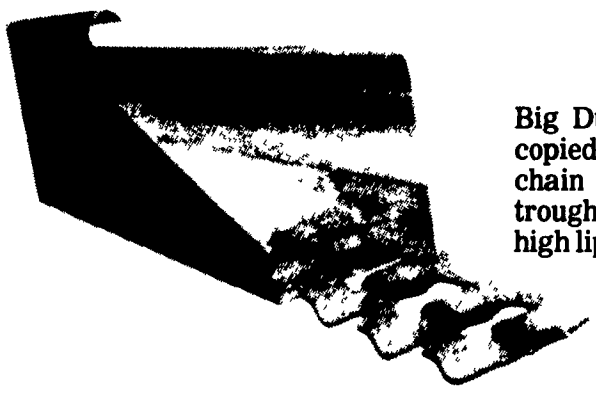

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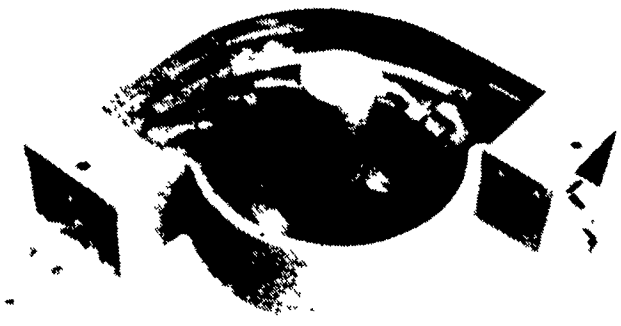

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Decreasing Groundwater May Change

USDA Farmline
News Service

WASHINGTON — What happens when turning on the pump for irrigation water no longer helps farmers turn a profit?

Faced with declining water levels and well yields, farmers in the Texas High Plains were among the first to ask themselves that question. Since the mid-1970's, producers there have halted groundwater irrigation on about 2 million acres, largely because of the "economic exhaustion" of the underground water reserves, or aquifers, they were "mining."

But the same question may soon be asked by other farmers—mostly in the Far West and Midwest—who are also encountering diminishing levels of groundwater stored in aquifers, and the costs of going deeper into the earth to draw it out.

"Aquifer levels have been dropping substantially in 11 states beneath 14 million acres of land irrigated from groundwater," says economist Gordon Sloggett, formerly of USDA's Economic Research Service. In these states—which account for 85 percent of the total U.S. acreage irrigated from aquifers—groundwater levels are falling from a half-foot to more than five feet each year.

By citing these figures in a recent issue of the Agriculture Department's *Farmline* magazine, Sloggett and fellow researcher, economist Clifford Dickason, aren't suggesting any serious danger to the state of food and fiber production in the United States.

"Groundwater levels do not seem to pose a significant national threat to irrigated agriculture in the foreseeable future," Sloggett says. "Still, major changes may be likely for the areas dependent on irrigation from underground aquifers, and some areas will be affected sooner and more extensively than others."

When Pumping No Longer Pays

Areas showing rapid rates of decline in groundwater levels and deep pumping depths are likely candidates for widespread change, Sloggett says.

"Pumping depths of more than 200 feet and sharply falling aquifer levels (more than three feet per year) are common in parts of Arizona, California, Idaho, Kansas, Texas, and the Oklahoma Panhandle." Other states with areas which may experience severe strains on groundwater resources further into the future are Arkansas, Colorado, Florida, Nebraska and New Mexico.

Along with increased pumping costs and declining well yields, Sloggett says, farmers drawing water from progressively deeper wells find their pumping efficiency is decreasing. "In a problem area, the combination of these factors eventually will economically exhaust the groundwater resource. In other words, it will cost so much to bring the water up and put it on the crops that groundwater irrigation will no longer pay."

The Texas High Plains was the first major section of the country to feel these effects. "Farmers in Texas began extensive use of groundwater for irrigation earlier than other Plains states," says Sloggett.

Moreover, "Texas relies more than any other state on natural gas for pumping, and the price of natural gas has risen much faster since the early 1970's than that for other types of energy."

The rate of groundwater decline in Texas now ranges from one to four feet per year. Instead of accelerating, though, this depletion trend shows signs of slowing. The average annual rate of decline has been reduced by about half a foot since the 1950's in the southern Texas High Plains, and by about three-quarters of a foot in the northern Texas High Plains.

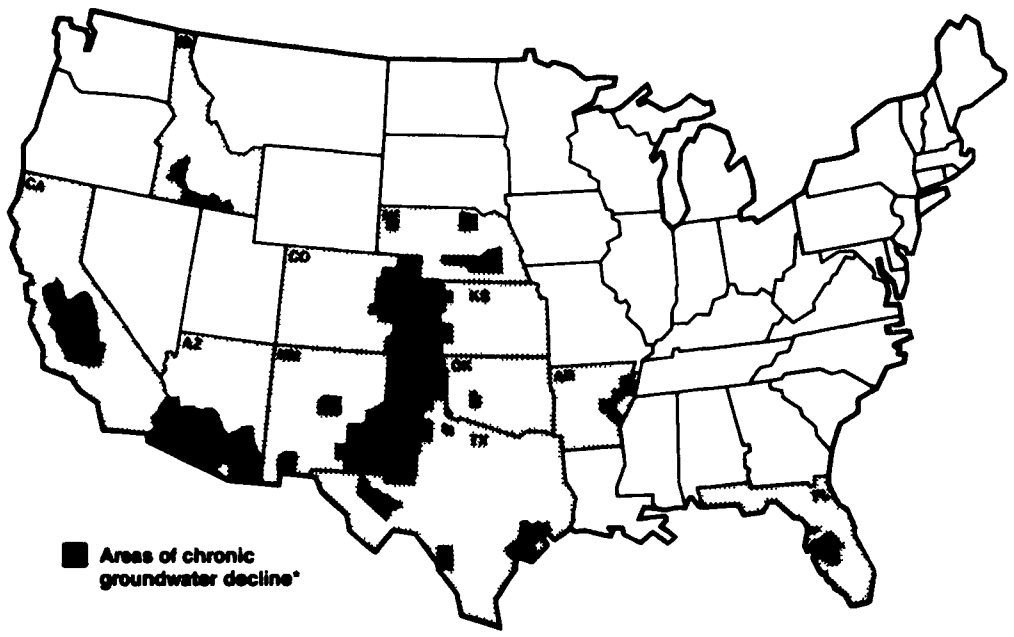
Several factors have contributed to the slowdown.

"Well yields have dropped along with falling water levels, reducing the amount of water that may be pumped in a given period. Farmers have also become more efficient irrigators by adopting better irrigation techniques with existing technology and by shifting to more advanced technology, thereby cutting water application rates. Crops with lower water requirements are being substituted for crops with higher water needs. And the amount of irrigated land has declined by about 15 percent in the last few years because of economic exhaustion of the aquifer in parts of the Texas High Plains," Sloggett says.

This pattern of slower groundwater declines may hold true in other affected areas as well.

"Although we don't have sufficient long-term data on annual water levels in most other groundwater mining areas," he says, "the rate of decline will likely slow in some of those areas because they share many of the conditions found in the Texas High Plains."

The Major Areas of Groundwater Decline Are Concentrated in the Irrigation-Dependent Southwest



What Happens to Production?

In addition to identifying specific geographic areas where groundwater is being depleted in substantial quantities, the two researchers have also pinpointed the particular crops that may be affected.

"The impact on some crops would be more significant than on others," says economist Dickason.

Currently, the leading crops harvested in areas where groundwater levels are falling sharply are grapes, cotton, grain sorghum, citrus fruit, and rice. For grapes, 33 percent of total U.S. harvested acreage is in fast-

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depleting groundwater areas, for cotton 22 percent, for grain sorghum 16 percent, for citrus 15 percent, and for rice 13 percent.

Dickason says the effects on U.S. production of any of these crops would depend on available alternatives if farmers are eventually forced to discontinue irrigation from underground aquifers. These alternatives include growing the same crop under dryland conditions, switching to another crop that can be grown with available natural moisture, going out of crop production, or, in rare cases, irrigating from surface water sources such as rivers and reservoirs.

The "Ultimate" System

"Efficiency relates to the amount of water that must be applied to the field to satisfy the water requirements of crops," Sloggett says. "Application efficiency of irrigation systems can range from 40 percent to more than 90 percent. If the 'ultimate' system were available, an irrigator would have to pump and apply only one acre-inch of water for every acre-inch needed to supply the crop requirement."

Of course, evaporation, runoff, seepage, and percolation of irrigation water below a crop's root zone all work against achieving the "ultimate" system. Nevertheless, small differences in irrigation efficiency levels can involve huge quantities of water—especially on farms with thousands of irrigated acres.

Deep Wells and Sharply Declining Water Levels Are Common in the 11 States with Large Areas of Groundwater Irrigation

	Pumping depths[1]	Annual rates of decline[1]
	Feet	
Arizona	75-535	2 0-3 0
Arkansas	50-120	0 5-1 3
California	100-260	0 5-3 5
Colorado	175-275	2 0
Florida	250	2 5
Idaho	200-375	1 1-5 0
Kansas	190-275	1 0-4 0
Nebraska	25 250	0 5-2 0
New Mexico	100-200	1 0-2 5
Oklahoma	100-275	1 0-2 5
Texas	50 300	1 0-4 0

[1]These figures show the range of *average* pumping depths and rates of decline in different parts of each state. The overall state average and the unaveraged lows and highs may be outside the indicated ranges

The Affordability Factor

"Capital costs may also dictate the choice of irrigation system," says Sloggett. Sprinkler or improved gravity systems generally require much larger investments than an unimproved gravity system.

"But as water levels and well yields decline, irrigation water costs are rising, making the more technically efficient sprinkler systems increasingly appealing to the irrigator," he says. Improved efficiency can mean—and make—the difference between continuing with groundwater irrigation or halting it completely.

"As well yields gradually decline," Sloggett says, "irrigation in more areas will begin to fall off as well."

Dugan Heads State Farm Dealers

Mr. Lloyd R. "Sonny" Dugan was recently elected President of the PA Farm and Power Equipment Dealers Association at their 73rd Annual Management Conference and Trade Show in Lancaster.

Lloyd R. Dugan was born in Galeton, PA. The only son of Lloyd L. and Ruth M. Dugan. "Sonny" as he is better known attended school in Galeton, PA. After school, he worked for his father on the 400 acre cash crop farming operation. The Dugans also ran a logging, trucking and bulldozing business. In the spring of 1954, Sonny got his first feel of the machinery business when his father signed a John Deere machinery franchise and put it in a newly built industrial building off Route 144, five miles south of Galeton. Sonny married the former Patricia Ann Cimino of Galeton in May 1957. They have one son, Jeffrey L. Dugan. In the spring of 1963, the Dugans machinery business moved to Route 49 near Ulysses, PA. Lloyd Sr. had bought out the John Deere business of E.E. Tucker who was retiring due to age. A new 8,000 sq. ft. steel building was built to be able to serve Potter County which was the Dugans newly enlarged territory.

In 1967, the business became Lloyd L. Dugan and Son, Inc. with Sonny as vice-president. When Lloyd Sr. formally retired in 1979, Sonny became president.

In July 1981, a disastrous fire struck the dealership. Working with plywood walls and a makeshift plastic covered roof, the dealership lost only a few weeks service to its customers. A new 11,000 sq. ft. building was built over and around the temporary work area. The new facility had its open house on January 9, 1982.

In the spring of 1984, a consumer products branch store was opened in Wellsville, NY 20 miles north of the main facility. This branch has been a grand success winning many travel and sales awards from the John Deere Co. This branch is managed by Jeffrey Lloyd Dugan making the Dugan dealership a 3 generation organization.

Lloyd "Sonny" Dugan is a director of First Citizens National Bank of Ulysses, PA, chairman of the Potter County Industrial Development Authority, a director of Potter County Recreation, Inc., a member of St. Bibianas parish and parish council, a 3rd. degree member of the Knights of Columbus Council 693, an advisory board member of Alfred University and Smethport Vocational-Technical School, president of 'i AM felicia Creations, Inc." a newly formed doll manufacturing company and a partner with his father in Dugan and Son Land Sales of Galeton and Ulysses, a land development and sales company selling land in Potter and Tioga Counties. One of the land sales company's most noteworthy accomplishments was the building and ownership of Potter County's largest lake.

Mr. Dugan will represent over 500 farm equipment dealers members throughout PA during his year long duties.

The association has represented farm equipment dealers since 1913. The state offices are located in Harrisburg.

Global Grain Trade Not Price Responsive

More U.S. corn now goes for sweeteners in soft drinks, conversion to starch or alcohol and for other food and industrial products than is being sold in foreign markets. Corn refiners say they are now able to produce a crystalline product which they see as a potential substitute for dry sugar, but it must be stored at low humidity and shipped in bulk under controlled conditions.

Government economists now predict that 1.15 billion bushels of corn will be used in food and industrial products this year compared to 1,125 million bushels that will be exported in 1986-87. That is the first time since 1960-61 that food and industrial uses will consume more corn than sales abroad. At that time exports totaled only 292 million bushels and 311 million went for food and industrial uses domestically.

Corn refiners dream of the day when they can produce a crystalline product to compete equally with dry sugar, now several years away. But they learned a hard lesson in the early 1970s by building plants in Europe only to have European countries impose production quotas the following year, said Raymond Stanhope, vice president of A.E. Staley Co. The industry would benefit if restrictions can be eased in the forthcoming round of General Agreement on Tariffs and Trade talks getting underway in Switzerland, Stanhope said.

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Penn State Ag Advisory Council Elects New Officers

UNIVERSITY PARK – The Penn State Agricultural Advisory Council elected Alfred S. Dugan of Hershey as president at its fall meeting. Dugan represents the Pennsylvania Seedsmen's Association on the Council.

Also elected officers are Richard E. Denison of Shiremanstown, representing the Pennsylvania Farmer's Association, vice president, and Robert Leslie, of the Pennsylvania Forest Resources Task Force, secretary-treasurer.

The Council was formed in 1961 to represent the agricultural interests within Pennsylvania and serve as an official advisory board to Penn State's College of Agriculture.

The Council meets twice yearly with administrators, faculty and staff of the College of Agriculture to discuss programs, progress in research, educational services, and significant developments in the College.

Council activities have included an extensive review of the academic programs and priorities in the College completed two years ago. The results of that study are included in a report containing more than 200 recommendations for action in animal science, plant science and undergraduate education.

The Council also has sponsored symposia for educators and county commissioners to help them more fully understand agricultural concerns in Pennsylvania. In addition, the Council has helped coordinate tours of agriculture regions of the state for university administrators.

More recently, the Council co-sponsored the Future of Pennsylvania Agriculture Conference held in Harrisburg last spring. More than 400 agricultural and political leaders and educators from around the state attended the two-day conference, which was moderated by Penn State President Bryce Jordan.

Outgoing president of the Council was Galen E. Dreibelbis of State College, representing the Pennsylvania Cattlemen's Association.

Spiders: Nature's Pest Control Agents

NEWARK, Del. – People often regard the spider as a sinister presence that lurks in dark, cob-webby corners waiting to jump out and bite. This prejudice, often fostered by childhood fears, is understandable, but it doesn't do the spider justice.

This much-maligned animal is actually one of nature's best pest control agents, since its whole life is spent capturing and gobbling up insects. Because of the spider's fondness for houseflies, small beetles, mosquitoes, thousand-leggers, cockroaches and other troublesome insects, it's definitely on the beneficial list, says University of Delaware extension entomologist Mark Graustein. And for the most part, it's quite safe to have around.

About 1,000 species of spiders live in the U.S. With a few well-known exceptions – such as the black widow, the tarantula and the brown recluse – most are harmless to humans. In fact, says Graustein, the spider is very timid and prefers to avoid all contact with people.

Spiders are such a familiar presence that they're usually taken for granted -- unless someone has a special phobia against them. But most people know very little about them.

According to Graustein, spiders belong to a class of animals called arachnids. They are closely related to ticks, mites and daddy longlegs – all of which have eight legs and two body sections. Insects, on the other hand, have six legs and three body sections.

Spiders have developed all sorts of specialized mechanisms for catching insects, the entomologist says. Some swing from a long strand of silk onto their prey as it flies by. Jumping spiders can pounce on a bug from several inches away. Fishing spiders walk on water and even dive below its surface in pursuit of the aquatic insects and small fish on which they feed. Crab spiders are so well camouflaged by their coloring that they can just sit inside a flower blossom and wait for unsuspecting insects to enter. Some crab spiders even have the ability to change color to blend in better with their plant surroundings.

Silk Stronger Than Steel

All spiders have spinerettes, silk spinning organs. But not all species make webs. The silk for the webs is secreted as a liquid which hardens when exposed to air. For its size, spider silk is stronger than steel – in fact, during World War II the silk from some spiders was used for making the cross hairs in gunsights. Spiders use their silk not only to trap insects, but also to line their nests and construct egg sacs. Some tropical species use it to make parachutes on which they manage to travel great distances.

When it comes to webs, the orb weavers are the great builders among spiders, Graustein says. These boldly marked black and yellow arachnids grow to more than an inch in diameter and usually can be found hanging upside down in the middle of their outdoor webs. These webs are easiest to see on foggy mornings after their silken strands have been beaded with dew.

"It's unlikely that you'll ever get bitten by a spider," says Graustein, "unless you're working in a heavily infested area such as a deserted building, an old well or an abandoned pile of lumber. And in that case, the spider's probably biting to protect itself." With a little extra care, he says the problem can usually be avoided.

Though beneficial, indoors spiders can sometimes become a nuisance, festooning light fixtures or ceiling corners with their webbs in otherwise tidy rooms.

Sanitation is the most practical way to deal with such problems, the entomologist says. He suggests using a vacuum cleaner, as housecleaning with a cloth, dust mop or broom is unlikely to remove the spiders responsible for webs. Take care to remove any small egg sacs, too. Dispose of the vacuum cleaner bag or its contents immediately after cleaning – otherwise the captured spiders may escape to weave more webs.

Where vacuuming is impractical or difficult, a chemical spray can be used instead. Graustein says many of the insecticide brands available to homeowners will control spiders.

For quick knock-down, check product labels for materials containing the active ingredients dichlorvos, resmethrin, synergized pyrethrins or tetramethrin.

(Turn to Page D7)

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Catching problems early could help you avoid the potential dangers of the improper use of electricity. Those include electric shocks, fires, stray voltage and poor lighting leading to reduced animal and poultry production. Inspect your system on a regular basis. Repair any deficiencies before they give you trouble. Upgrade your system by installing new circuits where needed and by using the proper electric wiring and enclosures.

You can use the following items as a maintenance program checklist to determine the adequacy of your electrical system. If you mark NO to any of the questions, check the situation.

When major changes are needed in the electric system, bring in a competent electrical contractor with knowledge and experience in the desired application area to do the work. The electric utility, local electrical inspection agency or private inspection agency should be contacted for assistance in planning the changes.

ELECTRICAL SYSTEM MAINTENANCE CHECKLIST

ITEM	YES	NO	NOT APPLICABLE
OVER-CURRENT PROTECTION (Fuses, circuit breakers)			
Does your system have capacity to operate all equipment?			
Do some circuits continually trip the circuit breaker or blow the fuse?			
Have you maintained the proper size fuse for the circuits?			
GROUNDING			
Is your grounding electrode (rod) properly connected to the electric system?			
Are you using grounding type receptacles at convenience outlets?			
Are all pieces of electrical equipment grounded?			
Have you maintained the ground connection on portable equipment and extension cords?			
Do you connect your auxiliary generator to ground?			
WIRING			
Is all wiring and conduit well fastened and undamaged?			
Do you use extension cords only for emergencies, tool operation, and short time periods?			
Are you using moisture-resistant wiring methods in damp locations?			
Have you removed all disconnected wiring?			
Are the panelboards protected from the weather?			
EQUIPMENT			
Are you using enclosed lighting fixtures in areas where protection is needed?			
Are the electric motors in your system easy to start? (They do not require spinning the pulley, etc.)			
Are the guards in place around the drive systems?			
Have you lubricated the motor bearings on a regular basis?			
Have you cleaned out electric enclosures? (Use compressed air with power off.)			

Spiders: Nature's Pest Control Agents

(Continued from Page D6)

Dichlorvos strips (vapona) give good control for several months in rooms with minimal ventilation.

Residual sprays for crack and crevice application should contain bendiocarb, carbaryl (sevin), chlorpyuriphos (Dursban), diazinon, malathion or propoxor (Baygon).

The entomologist does not recommend extensive chemical treatment outdoors for spider control. "Spiders are an important part of the natural population," he says. "Their elimination may allow undesirable insects to multiply."

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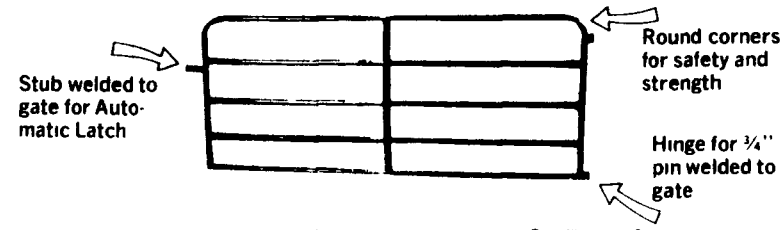

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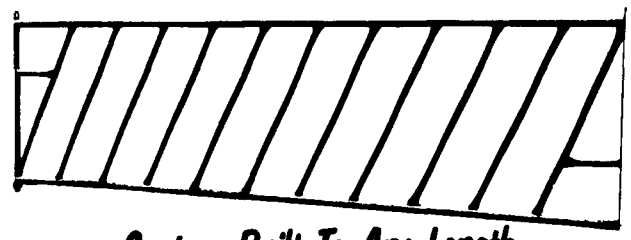

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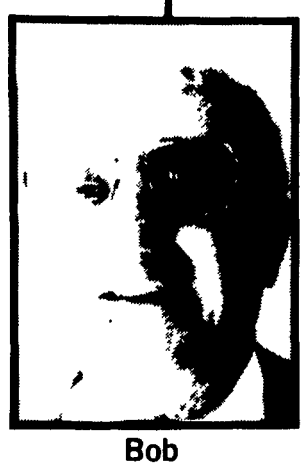
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